

. MODEL KP505A VDMOS(KP=3 RS=0.05 RD=0.004 RG=100 Rds=300Meg VTO=1.7 LAMBDA=0.05 CGDMAX=202p CGDMIN=5p CGS=285p TT=720n a=0.25 is=10p n=1.2 Rb=0.21 m=0.368 Vj=1.77 Cjo=185pF mfg=USSR Vds=50 Ron=0.3)

.MODEL kp505g VDMOS(KP=2.5 RS=0.0022 RD=0.0001 RG=100 Rds=8Meg VTO=0.6 LAMBDA=0.1 CGDMAX=466p CGDMIN=39p CGS=150p TT=720n a=2.59 is=100p n=1.1 Rb=0.12 m=0.437 Vj=0.62 Cjo=160pF mfg=USSR Vds=8 Ron=1)

.MODEL KP301B VDMOS(pchan KP=200u Mtriode=2.5 RS=200 RD=100 RG=60 VTO=-4 LAMBDA=0.03 CGDMAX=1.5p CGDMIN=1p CGS=1.5p TT=720n is=10n n=1 Rb=10 m=0.5 Vj=1 Cjo=10p mfg=USSR Vds=-20 Ron=1000)

.model KP305 VDMOS(KP=3.8m RS=20 RD=20 RG=10 VTO=-1.2 LAMBDA=0.01 CGDMAX=1p CGDMIN=0.38p CGS=4p TT=720n is=10n n=1 Rb=10 m=0.5 Vj=1 Cjo=10p mfg=USSR Vds=15)

.MODEL KP723A VDMOS(KP=9.82 RS=0.0003 RD=0.0112 RG=40 VTO=3.81 LAMBDA=0.001 CGDMAX=2016p CGDMIN=46p CGS=1100p TT=14u a=0.28 IS=6.55E-08 N=2.007 RB=0.028186 m=0.482 Vj=3.17 Cjo=2000pF mfg=INTEGRAL Vds=60 Ron=0.028)

.MODEL KP723G VDMOS(KP=26.0059 RS=0.0003 RD=0.023 RG=40 VTO=1.82 LAMBDA=0.001 CGDMAX=2096p CGDMIN=50p CGS=3000p TT=14u a=0.31 IS=6.55E-08 N=2.007 RB=0.028186 m=0.331 Vj=0.89 Cjo=2800pF mfg=INTEGRAL Vds=60 Ron=0.028)

.model KP501A VDMOS(KP=3.8m RS=1 RD=7 RG=70 Rds=300Meg VTO=2 LAMBDA=1.5m CGDMAX=110p CGDMIN=20p CGS=110p TT=720n IS=1p BV=240 Rb=1 CJO=125p M=0.7 VJ=0.36 Cjo=10p mfg=USSR Vds=240 Ron=10)

.MODEL KP905A NMOS (VTO=3.40928 KP=20U L=2U W=144.821M PHI=600M LAMBDA=5.34071M RD=3.0984 RS=103.139M CBD=304.961P CGSO=1.33845N CGDO=204.254P TOX=0 NSUB=0 TPG=1 UO=600 RG=88.5886 RDS=4MEG mfg=USSR)

.MODEL KP912 NMOS (VTO=3.7441 L=2U W=222.016M LAMBDA=50M RD=775.168M RS=269.513M CGSO=617.586P CGDO=617.586P RDS=1MEG mfg=USSR)

.MODEL KP913 NMOS (VTO=5.98947 L=2U W=144.126M LAMBDA=50M RD=406.351M RS=377.083M CGSO=617.586P CGDO=617.586P RDS=1MEG mfg=USSR)

.MODEL KP920 NMOS (VTO=6.04671 L=2U W=75.7492M LAMBDA=50M RD=604.012M RS=232.204M CGSO=617.586P CGDO=617.586P RG=114.991M RDS=1MEG mfg=USSR)

.MODEL KP922 NMOS (VTO=3.69098 L=2U W=374.478M LAMBDA=44.0723F RD=876.844M RS=905.727M CGSO=617.586P CGDO=617.586P RG=25.8323 RDS=50K mfg=USSR)

.MODEL SQ7002K VDMOS(KP=0.46 RS=0.8751 RG=150 VTO=1.8 rds=50Meg LAMBDA=60m CGDMAX=20p CGDMIN=2p CGS=17p TT=500n a=0.47 IS=3.25n N=1.744 RB=0.118608 m=0.348 Vj=0.23 Cjo=14pF mtriode=1 Vds=60 Ron=1 Qg=0.9n mfg=VISHAY)

.model IRLMS2002PbF VDmos( VTO=1.2 Rd=13m Rs=2m rds=1Meg rg=3.74 KP=40.0888 IS=1.25034e-07 Rb=0.0157167 N=1.5 tt=1e-7 CJO=250p VJ=2.212 M=0.363085 CGDMAX=188p CGDMIN=1p CGS=1420p a=0.07 mfg=International\_Rectifier Vds=20 Ron=30m Qg=15n)

.model AO6407 VDMOS(pchan Rg=3 Rd=14m Rs=10m Vto=-.8 Kp=32 Cgdmax=.5n Cgdmin=.07n Cgs=.9n Cjo=.26n Is=26p Rb=17m mfg=Alpha\_&\_Omega Vds=-20 Ron=34m Qg=13n)

.model AO6408 VDMOS(Rg=3 Rd=4.8m Rs=3.6m Vto=1 Kp=90 Cgdmax=.7n Cgdmin=.25n Cgs=1n Cjo=.36n Is=36p Rb=6m mfg=Alpha\_&\_Omega Vds=20 Ron=12m Qg=18n)

.model BSH114 VDMOS(Rg=3 Rd=.2 Rs=.2 Vto=3 Kp=1.5 Cgdmax=.2n Cgdmin=.02n Cgs=.3n Cjo=.09n Is=9.2p Rb=.3 mfg=Philips Vds=100 Ron=.5 Qg=4.6n)

.model BSS123 VDMOS(Rg=3 Rd=2.4 Rs=1.8 Vto=1.6 Kp=1 Cgdmax=.1n Cgdmin=.01n Cgs=.1n Cjo=.03n Is=2.8p Rb=3 mfg=Fairchild Vds=100 Ron=6 Qg=1.4n)

.model BSS145 VDMOS(Rg=3 Vto=2.8 Rd=1.4 Rs=1 Rb=1.75 Kp=.15 Cgdmax=.08n Cgdmin=.001n Cgs=.01n Cjo=.004n Is=.5p mfg=Infineon Vds=100 Ron=3500m Qg=2n)

.model BSS84 VDMOS(pchan Rg=3 Vto=-2.1 Rd=2.4 Rs=1.8 Rb=3 Kp=.2 Cgdmax=.04n Cgdmin=.001n Cgs=.02n Cjo=.01n Is=2p mfg=Philips Vds=-50 Ron=6000m Qg=1n)

.model BUK9219-55A VDMOS(Rg=3 Vto=1.7 Rd=8m Rs=6m Rb=10m Kp=70 Cgdmax=2.5n Cgdmin=.4n Cgs=2n Cjo=1n Is=80p mfg=Philips Vds=55 Ron=20m Qg=40n)

.model FDB2532 VDMOS(Rg=3 Vto=3.5 Rd=6.4m Rs=1.6m Rb=8m Kp=40 lambda=.01 Cgdmax=3n Cgdmin=.5n Cgs=4n Cjo=1.64n Is=164p mfg=Fairchild Vds=150 Ron=16m Qg=82n)

.model FDC2512 VDMOS(Rg=3 Vto=2.6 Rd=180m Rs=45m Rb=225m Kp=4 lambda=.05 Cgdmax=.2n Cgdmin=.02n Cgs=.5n Cjo=.16n Is=16p mfg=Fairchild Vds=150 Ron=450m Qg=8n)

.model FDC637AN VDMOS(Rg=3 Rd=9.6m Rs=7.2m Vto=1.1 Kp=62 Cgdmax=1.2n Cgdmin=.05n Cgs=1.3n Cjo=.21n Is=21p Rb=12m mfg=Fairchild Vds=20 Ron=24m Qg=10.5n)

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.model FDC638P VDMOS(pchan Rg=3 Rd=14m Rs=11m Vto=-1.1 Kp=22 Cgdmax=1.1n Cgdmin=.08n
cgs=1n Cjo=1n Is=5pA Rb=21m N=1 mfg=Fairchild Vds=-20 Ron=39m Qg=13n)
.model FDR4420A VDMOS(Rg=3 Vto=2.2 Rd=3.6m Rs=2.7m Rb=5m Kp=92 Cgdmax=1.6n Cgdmin=.6n
Cgs=2.2n Cjo=.46n Is=46p mfg=Fairchild Vds=30 Ron=9m Qg=23n)
.model FDR6580 VDMOS(Rg=3 Vto=1 Rd=3.6m Rs=2.7m Rb=5m Kp=120 Cgdmax=2.8n Cgdmin=.6n
Cgs=2.7n Cjo=.68n Is=68p mfg=Fairchild Vds=20 Ron=9m Qg=34n)
.model FDS3570 VDMOS(Rg=3 Rd=8.8m Rs=6.6m Vto=2 Kp=66 Cgdmax=2.2n Cgdmin=.27n Cgs=3.6n
Cjo=1.08n Is=108p Rb=11m mfg=Fairchild Vds=80 Ron=22m Qg=54n)
.model FDS3580 VDMOS(Rg=3 Rd=12.4m Rs=9.3m Vto=2 Kp=48 Cgdmax=1.4n Cgdmin=.17n Cgs=2.3n
Cjo=.68n Is=68p Rb=15.5m mfg=Fairchild Vds=80 Ron=31m Qg=34n)
.model FDS3812 VDMOS(Rg=3 Vto=2.4 Rd=32m Rs=24m Rb=40m Kp=15 Cgdmax=.4n Cgdmin=.1n
Cgs=.6n Cjo=.2n Is=26p mfg=Fairchild Vds=80 Ron=80m Qg=13n)
.model FDS4072N3 VDMOS(Rg=3 Vto=1.3 Rd=4m Rs=3m Rb=5m Kp=90 Cgdmax=1.3n Cgdmin=.3n
Cgs=5.2n Cjo=.66n Is=66p mfg=Fairchild Vds=40 Ron=10m Qg=33n)
.model FDS4410 VDMOS(Rg=3 Rd=8m Rs=6m Vto=2 Kp=70 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.26n Is=26p Rb=10m mfg=Fairchild Vds=30 Ron=20m Qg=13n)
.model FDS4435A VDMOS(pchan Rg=3 Rd=10m Rs=7.5m Vto=-1 Kp=60 Cgdmax=.8n Cgdmin=.11n
Cgs=1.4n Cjo=.42n Is=42p Rb=12.5m mfg=Fairchild Vds=-30 Ron=25m Qg=21n)
.model FDS4465 VDMOS(pchan Rg=3 Vto=-.7 Rd=4m Rs=1m Rb=5m Kp=100 lambda=.01 Cgdmax=7n
Cgdmin=1.3n Cgs=6.8n Cjo=2n Is=200p mfg=Fairchild Vds=-20 Ron=10m Qg=86n)
.model FDS4559_N VDMOS(Rg=3 Vto=2.2 Rd=22m Rs=5.5m Rb=28m Kp=10 lambda=.01 Cgdmax=.4n
Cgdmin=.1n Cgs=.64n Cjo=.2n Is=25p mfg=Fairchild Vds=60 Ron=55m Qg=12.5n)
.model FDS4559_P VDMOS(pchan Rg=3 Vto=-2.5 Rd=42m Rs=10.5m Rb=53m Kp=9 lambda=.01
Cgdmax=.5n Cgdmin=.12n Cgs=.8n Cjo=.24n Is=30p mfg=Fairchild Vds=-60 Ron=105m Qg=15n)
.model FDS4885C_N VDMOS(Rg=3 Vto=5 Rd=8.8m Rs=2.2m Rb=11m Kp=14 lambda=.03 Cgdmax=.5n
Cgdmin=.12n Cgs=.8n Cjo=.24n Is=30p mfg=Fairchild Vds=40 Ron=22m Qg=15n)
.model FDS4885C_P VDMOS(pchan Rg=2.5 Vto=-2 Rd=12.4m Rs=3.1m Rb=16m Kp=19 lambda=.05
Cgdmax=1.2n Cgdmin=.2n Cgs=1.7n Cjo=.5n Is=58p mfg=Fairchild Vds=-40 Ron=31m Qg=29n)
.model FDS4953 VDMOS(pchan Rg=3 Rd=38m Rs=28.5m Vto=-1 Kp=9 Cgdmax=.3n Cgdmin=.04n
Cgs=.5n Cjo=.16n Is=16p Rb=47.5m mfg=Fairchild Vds=-30 Ron=95m Qg=8n)
.model FDS5670 VDMOS(Rg=3 Vto=2.4 Rd=6m Rs=4.5m Rb=8m Kp=25 Cgdmax=2n Cgdmin=.4n
Cgs=2n Cjo=.6n Is=98p mfg=Fairchild Vds=60 Ron=15m Qg=49n)
.model FDS5680 VDMOS(Rg=3 Rd=10m Rs=7.5m Vto=2 Kp=60 Cgdmax=1.2n Cgdmin=.15n Cgs=2n
Cjo=.6n Is=60p Rb=12.5m mfg=Fairchild Vds=60 Ron=25m Qg=30n)
.model FDS5690 VDMOS(Rg=3 Rd=13.2m Rs=9.9m Vto=2 Kp=44 Cgdmax=.9n Cgdmin=.12n Cgs=1.5n
Cjo=.46n Is=46p Rb=16.5m mfg=Fairchild Vds=60 Ron=33m Qg=23n)
.model FDS6294 VDMOS(Rg=3 Vto=2.2 Rd=4.8m Rs=3.6m Rb=6m Kp=80 Cgdmax=.6n Cgdmin=.15n
Cgs=1n Cjo=.3n Is=20p mfg=Fairchild Vds=30 Ron=12m Qg=10n)
.model FDS6375 VDMOS(pchan Rg=3 Rd=8m Rs=6m Vto=-1.05 Kp=52 Cgdmax=1.5n Cgdmin=.4n
cgs=1.9n Cjo=1n Is=.48nA Rb=19.4m N=1.13 mfg=Fairchild Vds=-20 Ron=19m Qg=23n)
.model FDS6570A VDMOS(Rg=3 Rd=3m Rs=2.3m Vto=2 Kp=95 Cgdmax=1.9n Cgdmin=.24n Cgs=3.1n
Cjo=.94n Is=94p Rb=3.8m mfg=Fairchild Vds=20 Ron=7.5m Qg=47n)
.model FDS6574A VDMOS(Rg=3 Rd=3m Rs=2.3m Vto=.65 Kp=95 Cgdmax=10n Cgdmin=.38n Cgs=5n
Cjo=1.5n Is=150p Rb=3.8m mfg=Fairchild Vds=20 Ron=7.5m Qg=75n)
.model FDS6575 VDMOS(pchan Rg=3 Rd=4m Rs=2.4m Vto=-1.08 Kp=100 Cgdmax=4.4n Cgdmin=.5n
cgs=3.6n Cjo=1n Is=.1nA Rb=10m N=1 mfg=Fairchild Vds=-20 Ron=10m Qg=50n)
.model FDS6576 VDMOS(pchan Rg=3 Rd=5.6m Rs=4.2m Vto=-1 Kp=82 Cgdmax=1.8n Cgdmin=.22n
Cgs=2.9n Cjo=.88n Is=88p Rb=7m mfg=Fairchild Vds=-20 Ron=14m Qg=44n)
.model FDS6612A VDMOS(Rg=3 Rd=12m Rs=9m Vto=2 Kp=50 Cgdmax=.4n Cgdmin=.05n Cgs=.6n
Cjo=.18n Is=18p Rb=15m mfg=Fairchild Vds=30 Ron=30m Qg=9n)
.model FDS6614A VDMOS(Rg=3 Rd=10m Rs=7.5m Vto=2 Kp=60 Cgdmax=.5n Cgdmin=.06n Cgs=.8n
Cjo=.24n Is=24p Rb=12.5m mfg=Fairchild Vds=30 Ron=25m Qg=12n)
.model FDS6630A VDMOS(Rg=3 Rd=21.2m Rs=15.9m Vto=2 Kp=4 Cgdmax=.2n Cgdmin=.03n Cgs=.3n
Cjo=.1n Is=10p Rb=26.5m mfg=Fairchild Vds=30 Ron=53m Qg=5n)
.model FDS6670A VDMOS(Rg=3 Rd=4m Rs=3m Vto=2 Kp=90 Cgdmax=1.4n Cgdmin=.18n Cgs=2.3n
Cjo=.7n Is=70p Rb=5m mfg=Fairchild Vds=30 Ron=10m Qg=35n)

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.model FDS6675 VDMOS(pchan Rg=3 Rd=8m Rs=6m Vto=-1 Kp=70 Cgdmax=1.2n Cgdmin=.15n Cgs=2n
Cjo=.6n Is=60p Rb=10m mfg=Fairchild Vds=-30 Ron=20m Qg=30n)
.model FDS6680 VDMOS(Rg=3 Rd=3m Rs=4.2m Vto=2.65 Kp=70 mtriode=1.6 lambda=0.06
Cgdmax=1.2n Cgdmin=160p A=.6 Cgs=1.98n Cjo=1.5n M=.5 Is=1p Rb=6.5m mfg=Fairchild Vds=30
Ron=8.5m Qg=19n)
.model FDS6680A VDMOS(Rg=3 Rd=3m Rs=4.1m Vto=2.61 Kp=115 mtriode=1.6 lambda=0.09
Cgdmax=940p Cgdmin=100p A=.3 Cgs=1.55n Cjo=1n M=.5 Is=1p Rb=6.5m mfg=Fairchild Vds=30
Ron=7.8m Qg=16n)
.model FDS6685 VDMOS(pchan Rg=3 Rd=14m Rs=10.5m Vto=-1 Kp=40 Cgdmax=.8n Cgdmin=.1n
Cgs=1.3n Cjo=.38n Is=38p Rb=17.5m mfg=Fairchild Vds=-30 Ron=35m Qg=19n)
.model FDS6690A VDMOS(Rg=3 Rd=6.8m Rs=5.1m Vto=2 Kp=76 Cgdmax=.7n Cgdmin=.09n Cgs=1.1n
Cjo=.34n Is=34p Rb=8.5m mfg=Fairchild Vds=30 Ron=17m Qg=17n)
.model FDS6699S VDMOS(Rg=3 Vto=2 Rd=1.4m Rs=.4m Rb=2m Kp=200 lambda=.2 Cgdmax=2n
Cgdmin=.4n Cgs=4.3n Cjo=1.3n Is=130p mfg=Fairchild Vds=30 Ron=3.6m Qg=65n)
.model FDS6875 VDMOS(pchan Rg=3 Rd=12m Rs=9m Vto=-1 Kp=50 Cgdmax=.9n Cgdmin=.12n
Cgs=1.5n Cjo=.46n Is=46p Rb=15m mfg=Fairchild Vds=-20 Ron=30m Qg=23n)
.model FDS6890A VDMOS(Rg=3 Rd=7.6m Rs=5.7m Vto=2 Kp=72 Cgdmax=.9n Cgdmin=.12n Cgs=1.5n
Cjo=.46n Is=46p Rb=9.5m mfg=Fairchild Vds=20 Ron=19m Qg=23n)
.model FDS6912 VDMOS(Rg=3 Rd=16.8m Rs=12.6m Vto=2 Kp=26 Cgdmax=.3n Cgdmin=.04n Cgs=.5n
Cjo=.14n Is=14p Rb=21m mfg=Fairchild Vds=30 Ron=42m Qg=7n)
.model FDS6912A VDMOS(Rg=3 Rd=14m Rs=10.5m Vto=2 Kp=40 Cgdmax=.4n Cgdmin=.05n Cgs=.6n
Cjo=.18n Is=18p Rb=17.5m mfg=Fairchild Vds=30 Ron=35m Qg=9n)
.model FDS6930A VDMOS(Rg=3 Rd=5m Rs=5m Vto=1.5 Kp=7 Cgdmax=.2n Cgdmin=.03n Cgs=.3n
Cjo=.1n Is=10p Rb=27.5m mfg=Fairchild Vds=30 Ron=55m Qg=5n)
.model FDS6961A VDMOS(Rg=3 Rd=56m Rs=42m Vto=2 Kp=5 Cgdmax=.1n Cgdmin=.01n Cgs=.1n
Cjo=.04n Is=4p Rb=70m mfg=Fairchild Vds=30 Ron=140m Qg=2n)
.model FDS6975 VDMOS(pchan Rg=3 Rd=18m Rs=13.5m Vto=-1 Kp=20 Cgdmax=.6n Cgdmin=.08n
Cgs=1n Cjo=.3n Is=30p Rb=22.5m mfg=Fairchild Vds=-30 Ron=45m Qg=15n)
.model FDS8962C_N VDMOS(Rg=3 Vto=2.2 Rd=12m Rs=3m Rb=15m Kp=25 lambda=.03 Cgdmax=.4n
Cgdmin=.11n Cgs=.7n Cjo=.22n Is=22p mfg=Fairchild Vds=30 Ron=30m Qg=11n)
.model FDS8962C_P VDMOS(pchan Rg=3 Vto=-2.2 Rd=20.8m Rs=5.2m Rb=26m Kp=10 lambda=.03
Cgdmax=.32n Cgdmin=.08n Cgs=.6n Cjo=.16n Is=20p mfg=Fairchild Vds=-30 Ron=52m Qg=10n)
.model FDS9933A VDMOS(pchan Rg=3 Rd=30m Rs=22.5m Vto=-1 Kp=12 Cgdmax=.3n Cgdmin=.04n
Cgs=.5n Cjo=.16n Is=16p Rb=37.5m mfg=Fairchild Vds=-20 Ron=75m Qg=8n)
.model FDS9934_N VDMOS(Rg=3 Vto=1.2 Rd=14m Rs=10.5m Rb=18m Kp=40 Cgdmax=.3n Cgdmin=.1n
Cgs=.7n Cjo=.15n Is=12p mfg=Fairchild Vds=20 Ron=35m Qg=6.2n)
.model FDS9934_P VDMOS(pchan Rg=3 Vto=-1.4 Rd=30m Rs=22.5m Rb=38m Kp=40 Cgdmax=.7n
Cgdmin=.2n Cgs=.8n Cjo=.3n Is=18p mfg=Fairchild Vds=-20 Ron=75m Qg=9n)
.model FDZ5047N VDMOS(Rg=3 Vto=1.5 Rd=1.8m Rs=1.4m Rb=2m Kp=100 Cgdmax=5n Cgdmin=.5n
Cgs=3.5n Cjo=1.04n Is=104p mfg=Fairchild Vds=30 Ron=4.5m Qg=52n)
.model FDZ7064N VDMOS(Rg=3 Vto=1.4 Rd=3.2m Rs=2.4m Rb=4m Kp=90 Cgdmax=3.5n Cgdmin=.2n
Cgs=2.5n Cjo=.62n Is=62p mfg=Fairchild Vds=30 Ron=8m Qg=31n)
.model FQB11P06 VDMOS(pchan Rg=3 Rd=70m Rs=52m Vto=-4 lambda=.3 Kp=6 Cgdmax=.5n
Cgdmin=.07n Cgs=.9n Cjo=.26n Is=26p Rb=87m mfg=Fairchild Vds=-60 Ron=175m Qg=13n)
.model HAT1023R VDMOS(pchan Rg=3 Vto=-1.4 Rd=12m Rs=9m Rb=15m Kp=50 Cgdmax=1.2n
Cgdmin=.3n Cgs=2n Cjo=.6n Is=60p mfg=Renesas Vds=-20 Ron=30m Qg=30n)
.model HAT1072H VDMOS(pchan Rg=3 Rd=1.4m Rs=1.1m Vto=-2 Kp=103 lambda=.03 Cgdmax=4.2n
Cgdmin=.5n Cgs=4.3n Cjo=3n Is=310p Rb=1.8m mfg=Renesas Vds=-30 Ron=3.6m Qg=155n)
.model HAT2044R VDMOS(Rg=3 Vto=1 Rd=2.8m Rs=2.1m Rb=4m Kp=120 Cgdmax=1.9n Cgdmin=.48n
Cgs=3n Cjo=.96n Is=96p mfg=Renesas Vds=30 Ron=7m Qg=48n)
.model HAT2160H VDMOS(Rg=3 Vto=2.2 Rd=.8m Rs=.2m Rb=1m Kp=150 lambda=.05 Cgdmax=1.6n
Cgdmin=.45n Cgs=3n Cjo=.9n Is=90p mfg=Renesas Vds=20 Ron=2.1m Qg=28n)
.model HAT2164H VDMOS(Rg=.50 Rd=1m Rs=.8m Vto=2 lambda=.05 Kp=105 Cgdmax=2n Cgdmin=.6n
Cgs=3.3n Cjo=1n Is=100p Rb=1.3m mfg=Renesas Vds=30 Ron=2.5m Qg=50n)
.model HAT2166H VDMOS(Rg=.50 Rd=1.2m Rs=.9m Vto=2 lambda=.08 Kp=114 Cgdmax=1.1n
Cgdmin=.27n Cgs=1.8n Cjo=.54n Is=54p Rb=1.5m mfg=Renesas Vds=30 Ron=2.9m Qg=27n)

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.model HAT2167H VDMOS(Rg=.50 Rd=1.7m Rs=1.3m Vto=2 lambda=.05 Kp=102 Cgdmax=.7n
Cgdmin=.17n Cgs=1.1n Cjo=.34n Is=34p Rb=2.1m mfg=Renesas Vds=30 Ron=4.2m Qg=17n)
.model HAT2168H VDMOS(Rg=.55 Rd=2.4m Rs=1.8m Vto=2 lambda=.05 Kp=60 Cgdmax=.4n
Cgdmin=.2n Cgs=.7n Cjo=.22n Is=20p Rb=3m mfg=Renesas Vds=30 Ron=6m Qg=11n)
.model HUF76413DK8T VDMOS(Rg=3 Vto=2.2 Rd=22.4m Rs=16.8m Rb=28m Kp=50 Cgdmax=.6n
Cgdmin=.1n Cgs=.6n Cjo=.2n Is=36p mfg=Fairchild Vds=60 Ron=56m Qg=18n)
.model IRF1302 VDMOS(Rg=2.9 Vto=4.0 Rd=0.0m Rs=0.0m Rb=2.1m Kp=50 Cgdmax=4.85n
Cgdmin=0.30n Cgs=2.18n Cjo=5.3n Is=10p tt=66n mfg=International_Rectifier Vds=20 Ron=3.3m Qg=79n)
.model IRF1312S VDMOS(Rg=3 Rd=4m Rs=3m Vto=5.25 Kp=70 Cgdmax=3.7n Cgdmin=.47n Cgs=6.2n
Cjo=1.86n Is=186p Rb=5m mfg=International_Rectifier Vds=80 Ron=10m Qg=93n)
.model IRF1405 VDMOS(Rg=3 Vto=3.9 Rd=0.6m Rs=1.1m Rb=2.97m Kp=59 Cgdmax=8.1n
Cgdmin=0.34n Cgs=6.5n Cjo=3.2n Is=33p mfg=International_Rectifier Vds=55 Ron=4.6m Qg=170n)
.model IRF1503S VDMOS(Rg=3 Vto=3.9 Rd=1.3m Rs=1m Rb=2m Kp=103.4 Cgdmax=3n Cgdmin=.9n
Cgs=6n Cjo=1.5n Is=150p mfg=International_Rectifier Vds=30 Ron=3.3m Qg=28n)
.model IRF3717 VDMOS(Rg=3 Vto=2.45 Rd=1.8m Rs=1.3m Rb=2m Kp=100 Cgdmax=1.3n Cgdmin=.33n
Cgs=2.2n Cjo=.66n Is=44p mfg=International_Rectifier Vds=20 Ron=4.4m Qg=22n)
.model IRF6607 VDMOS(Rg=3 Rd=1.5m Rs=1.1m Vto=2 lambda=.15 Kp=50 Cgdmax=2n Cgdmin=.5n
Cgs=5.3n Cjo=1n Is=100p Rb=1.9m mfg=International_Rectifier Vds=30 Ron=3.8m Qg=50n)
.model IRF6609 VDMOS(Rg=3 Vto=2.6 Rd=.8m Rs=.6m Rb=1m Kp=106 Cgdmax=1.8n Cgdmin=.86n
Cgs=5.1n Cjo=.92n Is=92p mfg=International_Rectifier Vds=20 Ron=2m Qg=46n)
.model IRF6618 VDMOS(Rg=2 Rd=1.1m Rs=0 Vto=2.2 lambda=.02 Kp=150 mtriode=1.5 Cgdmax=2.2n
Cgdmin=.2n Cgs=6n Cjo=.92n Is=50p Rb=1.5m mfg=International_Rectifier Vds=30 Ron=2.8m Qg=43n)
.model IRF6620 VDMOS(Rg=3 Vto=2.5 Rd=1.1m Rs=.8m Rb=1m Kp=104.6 Cgdmax=1.5n Cgdmin=.6n
Cgs=3n Cjo=.56n Is=56p mfg=International_Rectifier Vds=20 Ron=2.7m Qg=28n)
.model IRF6623 VDMOS(Rg=3 Vto=2.35 Rd=2.3m Rs=1.7m Rb=3m Kp=98.6 Cgdmax=.5n Cgdmin=.2n
Cgs=1.4n Cjo=.22n Is=22p mfg=International_Rectifier Vds=20 Ron=5.7m Qg=11n)
.model IRF6635 VDMOS(Rg=3 Vto=1.8 Rd=.5m Rs=.1m Rb=1m Kp=45 lambda=.05 Cgdmax=3n
Cgdmin=.6n Cgs=6n Cjo=1.5n Is=150p mfg=International_Rectifier Vds=30 Ron=1.3m Qg=47n)
.model IRF6691 VDMOS(Rg=3 Vto=2.5 Rd=.7m Rs=.5m Rb=1m Kp=106.4 Cgdmax=1.9n Cgdmin=.7n
Cgs=6.1n Cjo=.94n Is=94p mfg=International_Rectifier Vds=20 Ron=1.8m Qg=47n)
.model IRF7201 VDMOS(Rg=3 Rs=12m Rd=5m Vto=2.64 Kp=26 Cgdmax=650p Cgdmin=135p Cgs=620p
Cjo=620p a=1.5 Is=2.4p Rb=11m N=1.07 mfg=International_Rectifier Vds=30 Ron=30m Qg=28n)
.model IRF7204 VDMOS(pchan Rg=3 Rd=24m Rs=18m Vto=-1 Kp=15 Cgdmax=1n Cgdmin=.13n
Cgs=1.7n Cjo=.5n Is=50p Rb=30m mfg=International_Rectifier Vds=-20 Ron=60m Qg=25n)
.model IRF7205 VDMOS(pchan Rg=3 Rd=28m Rs=21m Vto=-1 Kp=10 Cgdmax=1.1n Cgdmin=.14n
Cgs=1.8n Cjo=.54n Is=54p Rb=35m mfg=International_Rectifier Vds=-30 Ron=70m Qg=27n)
.model IRF7207 VDMOS(pchan Rg=3 Rd=32m Rs=24m Vto=-1 Kp=8 Cgdmax=.6n Cgdmin=.08n Cgs=1n
Cjo=.3n Is=30p Rb=40m mfg=International_Rectifier Vds=-20 Ron=80m Qg=15n)
.model IRF7210 VDMOS(pchan Rg=3 Rd=2m Rs=1.5m Vto=-1 Kp=100 Cgdmax=8.5n Cgdmin=1.06n
Cgs=14.1n Cjo=4.24n Is=424p Rb=2.5m mfg=International_Rectifier Vds=-12 Ron=5m Qg=212n)
.model IRF7220 VDMOS(pchan Rg=3 Rd=4.8m Rs=3.6m Vto=-.75 Kp=86 Cgdmax=1.5n Cgdmin=4.25n
Cgs=7n Cjo=1n Is=168p Rb=6m mfg=International_Rectifier Vds=-12 Ron=12m Qg=84n)
.model IRF7233 VDMOS(pchan Rg=3 Rd=8m Rs=6m Vto=-1 Kp=70 Cgdmax=2n Cgdmin=.25n Cgs=3.3n
Cjo=.98n Is=98p Rb=10m mfg=International_Rectifier Vds=-12 Ron=20m Qg=49n)
.model IRF7303 VDMOS(Rg=3 Rs=30m Rd=10m Vto=2.3 Kp=15 Cgdmax=800p Cgdmin=10p Cgs=500p
Cjo=500p a=1.5 Is=39p Rb=66m N=1.24 Vds=30 Ron=50m Qg=25n mfg=International_Rectifier)
.model IRF7335 VDMOS(Rg=3 Vto=1.9 Rd=5.2m Rs=3.9m Rb=7m Kp=84 Cgdmax=.7n Cgdmin=.2n
Cgs=1.5n Cjo=.26n Is=26p mfg=International_Rectifier Vds=30 Ron=13m Qg=13n)
.model IRF7343N VDMOS(Rg=3 Rd=20m Rs=15m Vto=1 Kp=10 Cgdmax=1.4n Cgdmin=.18n Cgs=.8n
Cjo=.72n Is=72p Rb=25m mfg=International_Rectifier Vds=55 Ron=50m Qg=36n)
.model IRF7343P VDMOS(pchan Rg=3 Rd=42m Rs=31m Vto=-1 Kp=1 Cgdmax=1.5n Cgdmin=.19n
Cgs=.83n Cjo=.76n Is=76p Rb=52m mfg=International_Rectifier Vds=-55 Ron=105m Qg=38n)
.model IRF7401 VDMOS(Rg=3 Rd=8.8m Rs=6.6m Vto=2 Kp=66 Cgdmax=1.6n Cgdmin=.2n Cgs=2.7n
Cjo=.8n Is=80p Rb=11m mfg=International_Rectifier Vds=20 Ron=22m Qg=40n)
.model IRF7403 VDMOS(Rg=3 Rd=8.8m Rs=6.6m Vto=2 Kp=66 Cgdmax=1.7n Cgdmin=.21n Cgs=2.8n
Cjo=.84n Is=84p Rb=11m mfg=International_Rectifier Vds=30 Ron=22m Qg=42n)

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.model IRF7404 VDMOS(pchan Rg=3 Rd=16m Rs=12m Vto=-1 Kp=30 Cgdmax=1.6n Cgdmin=.2n
Cgs=2.7n Cjo=.8n Is=80p Rb=20m mfg=International_Rectifier Vds=-20 Ron=40m Qg=40n)
.model IRF7406 VDMOS(pchan Rg=3 Rd=18m Rs=13.5m Vto=-1 Kp=20 Cgdmax=1.4n Cgdmin=.18n
Cgs=2.4n Cjo=.72n Is=72p Rb=22.5m mfg=International_Rectifier Vds=-30 Ron=45m Qg=36n)
.model IRF7413 VDMOS(Rg=3 Rd=4.4m Rs=3.3m Vto=2 Kp=88 Cgdmax=1.4n Cgdmin=.17n Cgs=2.3n
Cjo=.68n Is=68p Rb=5.5m mfg=International_Rectifier Vds=30 Ron=11m Qg=34n)
.model IRF7413A VDMOS(Rg=3 Rd=5.4m Rs=4.1m Vto=2 Kp=83 Cgdmax=2.1n Cgdmin=.26n Cgs=3.5n
Cjo=1.04n Is=104p Rb=6.8m mfg=International_Rectifier Vds=30 Ron=13.5m Qg=52n)
.model IRF7455 VDMOS(Rg=3 Rd=3m Rs=2.3m Vto=2 Kp=95 Cgdmax=1.5n Cgdmin=.19n Cgs=2.5n
Cjo=.74n Is=74p Rb=3.8m mfg=International_Rectifier Vds=30 Ron=7.5m Qg=37n)
.model IRF7456 VDMOS(Rg=3 Rd=2.6m Rs=2m Vto=2 Kp=97 Cgdmax=1.6n Cgdmin=.21n Cgs=2.7n
Cjo=.82n Is=82p Rb=3.3m mfg=International_Rectifier Vds=20 Ron=6.5m Qg=41n)
.model IRF7468 VDMOS(Rg=3 Rd=6.4m Rs=4.8m Vto=1.8 Kp=40 Cgdmax=.9n Cgdmin=.12n Cgs=1.5n
Cjo=.46n Is=46p Rb=8m mfg=International_Rectifier Vds=40 Ron=16m Qg=23n)
.model IRF7805 VDMOS(Rg=3 Rd=4.4m Rs=3.3m Vto=2 Kp=88 Cgdmax=1.2n Cgdmin=.16n Cgs=2.1n
Cjo=.62n Is=62p Rb=5.5m mfg=International_Rectifier Vds=30 Ron=11m Qg=31n)
.model IRF7807 VDMOS(Rg=3 Rd=10m Rs=7.5m Vto=2 Kp=60 Cgdmax=.7n Cgdmin=.09n Cgs=1.1n
Cjo=.34n Is=34p Rb=12.5m mfg=International_Rectifier Vds=30 Ron=25m Qg=17n)
.model IRF7809A VDMOS(Rg=3 Rd=3.4m Rs=2.6m Vto=2 Kp=93 Cgdmax=2.4n Cgdmin=.31n Cgs=4.1n
Cjo=1.22n Is=122p Rb=4.3m mfg=International_Rectifier Vds=30 Ron=8.5m Qg=61n)
.model IRF7811 VDMOS(Rg=3 Rd=3.4m Rs=2.6m Vto=2 Kp=93 Cgdmax=.8n Cgdmin=.1n Cgs=1.3n
Cjo=.38n Is=38p Rb=4.3m mfg=International_Rectifier Vds=30 Ron=8.5m Qg=19n)
.model IRF7811AV VDMOS(Rg=3 Rd=4.4m Rs=3.3m Vto=2 Kp=88 Cgdmax=.7n Cgdmin=.09n Cgs=1.1n
Cjo=.34n Is=34p Rb=5.5m mfg=International_Rectifier Vds=30 Ron=11m Qg=17n)
.model IRF7822 VDMOS(Rg=3 Rd=2m Rs=1.5m Vto=2 Kp=100 Cgdmax=1.8n Cgdmin=.22n Cgs=2.9n
Cjo=.88n Is=88p Rb=2.5m mfg=International_Rectifier Vds=30 Ron=5m Qg=44n)
.model IRF7831 VDMOS(Rg=3 Vto=2.35 Rd=1.4m Rs=1.1m Rb=2m Kp=102.8 Cgdmax=1.6n Cgdmin=.4n
Cgs=2.7n Cjo=.8n Is=80p mfg=International_Rectifier Vds=30 Ron=3.6m Qg=40n)
.model IRF7832 VDMOS(Rg=3 Rd=1.6m Rs=1.2m Vto=2.2 Kp=112 Cgdmax=2.4n Cgdmin=.17n Cgs=4.3n
Cjo=.68n Is=68p Rb=2m mfg=International_Rectifier Vds=30 Ron=4m Qg=34n)
.model IRF9410 VDMOS(Rg=3 Rd=12m Rs=9m Vto=2 Kp=50 Cgdmax=.7n Cgdmin=.09n Cgs=1.2n
Cjo=.36n Is=36p Rb=15m mfg=International_Rectifier Vds=30 Ron=30m Qg=18n)
.model IRF9Z24S_L VDMOS(pchan Rg=3 Vto=-3.5 Rd=112m Rs=84m Rb=140m Kp=200 Cgdmax=.2n
Cgdmin=.08n Cgs=1n Cjo=.1n Is=38p mfg=International_Rectifier Vds=-60 Ron=280m Qg=19n)
.model IRFL014 VDMOS(Rg=3 Vto=3.5 Rd=80m Rs=20m Rb=100m Kp=2 lambda=.01 Cgdmax=.5n
Cgdmin=.07n Cgs=.25n Cjo=.1n Is=22p mfg=International_Rectifier Vds=60 Ron=200m Qg=11n)
.model IRFL4310 VDMOS(Rg=3 Vto=3.8 Rd=80m Rs=60m Rb=100m Kp=10 Cgdmax=.3n Cgdmin=.1n
Cgs=.6n Cjo=.2n Is=20p mfg=International_Rectifier Vds=100 Ron=200m Qg=28n)
.model IRFP2907 VDMOS(Rg=3 Vto=4.15 Rd=1.8m Rs=.4m Rb=.9m Kp=130 Lambda=.10
Cgdmax=16.11n Cgdmin=1.2n Cgs=18n Cjo=18n Is=806p mfg=International_Rectifier Vds=75 Ron=4.5m
Qg=410n)
.model IRFP90N20D VDMOS(Rg=3 Vto=4.8 Rd=9.2m Rs=6.9m Rb=12m Kp=50 Cgdmax=4n Cgdmin=.5n
Cgs=6n Cjo=2n Is=360p mfg=International_Rectifier Vds=200 Ron=23m Qg=180n)
.model IRL3915 VDMOS(Rg=3 Vto=1.9 Rd=5.6m Rs=4.2m Rb=7m Kp=60 lambda=.02 Cgdmax=2.4n
Cgdmin=.4n Cgs=4.1n Cjo=1.22n Is=122p mfg=International_Rectifier Vds=55 Ron=14m Qg=61n)
.model IRL530NS_L VDMOS(Rg=3 Vto=2.4 Rd=40m Rs=30m Rb=50m Kp=50 Cgdmax=4n Cgdmin=2n
Cgs=1n Cjo=1.5n Is=68p mfg=International_Rectifier Vds=100 Ron=100m Qg=34n)
.model IRL630 VDMOS VTO=2.033 RS=0.03325 KP=21.514 RD=0.2711 RG=13.626 I CGDMAX=4.5n
CGDMIN=5p CBD=2.43E-10 IS=6.09p Rb=0.0198 TT=4.563e-07 Cgs=978p mfg=International_Rectifier
.model IRLML2803 VDMOS(Rg=3 Vto=2.9 Rd=.1 Rs=75m Rb=125m Kp=10 Cgdmax=.15n Cgdmin=.018n
Cgs=.13n Cjo=.07n Is=7p mfg=International_Rectifier Vds=30 Ron=250m Qg=3.3n)
.model IXFX90N30 VDMOS(Rg=3 Vto=3.6 Rd=13.2m Rs=9.9m Rb=17m Kp=90 Cgdmax=30n
Cgdmin=10n Cgs=100n Cjo=30n Is=720p mfg=IXYS Vds=300 Ron=33m Qg=360n)
.model NDS9410A VDMOS(Rg=3 Rs=15m Rd=8m Vto=2.7 Kp=24.5 Cgdmax=950p Cgdmin=320p
Cgs=1020p Cjo=940p a=.1 Is=.82p Rb=12m N=1.02 mfg=Fairchild Vds=30 Ron=42m Qg=50n)
.model NTB52N10 VDMOS(Rg=3 Vto=3.9 Rd=12m Rs=9m Rb=15m Kp=70 Cgdmax=1.5n Cgdmin=.36n
Cgs=2.4n Cjo=.75n Is=80p mfg=Onsemi Vds=100 Ron=30m Qg=72n)

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.model NTLMS4502N VDMOS(Rg=3 Vto=1.5 Rd=3.2m Rs=2.4m Rb=4m Kp=94 Cgdmax=.1n
Cgdmin=.03n Cgs=.2n Cjo=.06n Is=6p mfg=Onsemi Vds=24 Ron=8m Qg=3n)
.model NTLMS4504N VDMOS(Rg=3 Vto=1.5 Rd=1.5m Rs=1.1m Rb=2m Kp=102.6 Cgdmax=1n
Cgdmin=.24n Cgs=1.6n Cjo=.48n Is=48p mfg=Onsemi Vds=24 Ron=3.7m Qg=24n)
.model PH2625L VDMOS(Rg=3 Vto=1.5 Rd=1.1m Rs=.8m Rb=1m Kp=104.6 Cgdmax=1.3n Cgdmin=.32n
Cgs=2.1n Cjo=.64n Is=64p mfg=Philips Vds=25 Ron=2.7m Qg=32n)
.model PH6325L VDMOS(Rg=3 Vto=1.5 Rd=2.5m Rs=1.9m Rb=3m Kp=97.4 Cgdmax=.5n Cgdmin=.13n
Cgs=.9n Cjo=.26n Is=26p mfg=Philips Vds=25 Ron=6.3m Qg=13n)
.model SI3443DV VDMOS(pchan Rg=3 Rd=22m Rs=8m Vto=-1.05 Kp=12.2 Cgdmax=.32n Cgdmin=.16n
cgs=1.1n Cjo=1n Is=.011nA Rb=.022 N=1.12 mfg=Siliconix Vds=-20 Ron=58m Qg=8.5n)
.model SI3445DV VDMOS(pchan Rg=3 Rd=15m Rs=6m Vto=-.85 Kp=18 Cgdmax=1n Cgdmin=.44n
cgs=1.2n Cjo=.1n Is=.045nA Rb=.026 N=1.127 mfg=Siliconix Vds=-8 Ron=34m Qg=15n)
.model SI4467DY VDMOS(pchan Rg=3 Vto=-.7 Rd=4m Rs=3m Rb=5m Kp=90 Cgdmax=3.4n
Cgdmin=1.5n Cgs=10n Cjo=3.72n Is=172p mfg=Fairchild Vds=-20 Ron=10m Qg=86n)
.model SI7454DP VDMOS(Rg=3 Vto=3.8 Rd=13.6m Rs=10.2m Rb=17m Kp=42 Cgdmax=.5n Cgdmin=.1n
Cgs=1.6n Cjo=.48n Is=48p mfg=Siliconix Vds=100 Ron=34m Qg=24n)
.model SPA11N60C3 VDMOS(Rg=.86 Vto=4.08 subthres=10m Mtriode=.8 Rd=275m Rs=60m Rb=22m
Kp=40 A=2.2 Cgdmax=2.7n Cgdmin=10p Cgs=1.5n Cjo=.7n Is=20p mfg=Infineon Vds=650 Ron=340m
Qg=45n)
.model STB120NF10 VDMOS(Rg=3 Vto=3.7 Rd=3.6m Rs=2.7m Rb=5m Kp=92 Cgdmax=4n Cgdmin=1n
Cgs=4n Cjo=2n Is=200p mfg=STMicroelectronics Vds=100 Ron=9m Qg=172n)
.model STP8NM60 VDMOS(Rg=4 Vto=5.3 Rd=650m Rs=50m Rb=450m lambda=.005 Kp=1 Cgdmax=.1n
Cgdmin=.01n Cgs=.7n Cjo=.3n Is=13p mfg=STMicroelectronics Vds=650 Ron=900m Qg=13n)
.model STW11NM80 VDMOS(Rg=3 Vto=4.5 Rd=140m Rs=100m Rb=175m Kp=30 Cgdmax=.5n
Cgdmin=.05n Cgs=2n Cjo=.3n Is=88p mfg=STMicroelectronics Vds=800 Ron=350m Qg=44n)
.model SUD40N04-10A VDMOS(Rg=3 Vto=2.9 Rd=4m Rs=3m Rb=5m Kp=90 Cgdmax=1.4n Cgdmin=.2n
Cgs=1.8n Cjo=.7n Is=70p mfg=Siliconix Vds=40 Ron=10m Qg=35n)
.model SUD40N10-25 VDMOS(Rg=3 Rd=10m Rs=5m Vto=2.3 Kp=70 lambda=.01 Cgdmax=2n
Cgdmin=100p Cgs=1.9n Cjo=1.25n Is=.0055n Rb=.005 mfg=Siliconix Vds=100 Ron=25m Qg=60n)
.model SUM75N06-09L VDMOS(Rg=3 Vto=3 Rd=4m Rs=3m Rb=5m Kp=90 Cgdmax=1.7n Cgdmin=.42n
Cgs=2.8n Cjo=.84n Is=84p mfg=Siliconix Vds=60 Ron=10m Qg=42n)
.model Si1013 VDMOS(pchan Rg=3 Vto=-1.3 Rd=480m Rs=360m Rb=600m Kp=3 Cgdmax=.2n
Cgdmin=.01n Cgs=.05n Cjo=.1n Is=3p mfg=Siliconix Vds=-20 Ron=1200m Qg=1.5n)
.model Si1555DL_N VDMOS(Rg=3 Vto=1.1 Rd=200m Rs=150m Rb=250m Kp=2 Cgdmax=.1n
Cgdmin=.005n Cgs=.01n Cjo=.01n Is=2p mfg=Siliconix Vds=20 Ron=500m Qg=.8n)
.model Si1555DL_P VDMOS(pchan Rg=3 Vto=-.9 Rd=280m Rs=210m Rb=350m Kp=3 Cgdmax=.2n
Cgdmin=.01n Cgs=.06n Cjo=.03n Is=3p mfg=Siliconix Vds=-8 Ron=700m Qg=1.5n)
.model Si3440DV VDMOS(Rg=3 Vto=3.8 Rd=150m Rs=112.5m Rb=188m Kp=50 Cgdmax=.2n
Cgdmin=.02n Cgs=.2n Cjo=.05n Is=11p mfg=Siliconix Vds=150 Ron=375m Qg=5.4n)
.model Si3460DV VDMOS(Rg=3 Rd=12m Rs=9m Vto=1 Kp=100 Cgdmax=.5n Cgdmin=.07n Cgs=2n
Cjo=.27n Is=27p Rb=15m mfg=Siliconix Vds=20 Ron=30m Qg=13.5n)
.model Si4362DY VDMOS(Rg=3 Rd=2.5m Rs=1.9m Vto=2 Kp=98 Cgdmax=1.6n Cgdmin=.2n Cgs=2.7n
Cjo=.8n Is=80p Rb=3.1m mfg=Siliconix Vds=30 Ron=6.25m Qg=40n)
.model Si4364DY VDMOS(Rg=3 Rd=2.2m Rs=1.7m Vto=2 Kp=99 Cgdmax=2.5n Cgdmin=.31n Cgs=4.1n
Cjo=1.24n Is=124p Rb=2.8m mfg=Siliconix Vds=30 Ron=5.5m Qg=62n)
.model Si4401DY VDMOS(pchan Rg=3 Rd=8.8m Rs=6.6m Vto=-1 Kp=66 Cgdmax=1.5n Cgdmin=.19n
Cgs=2.5n Cjo=.74n Is=74p Rb=11m mfg=Siliconix Vds=-40 Ron=22m Qg=37n)
.model Si4403DY VDMOS(pchan Rg=3 Rd=6.8m Rs=5.1m Vto=-1 Kp=76 Cgdmax=1.2n Cgdmin=.15n
Cgs=2n Cjo=.61n Is=61p Rb=8.5m mfg=Siliconix Vds=-20 Ron=17m Qg=30.5n)
.model Si4404DY VDMOS(Rg=3 Rd=3.2m Rs=2.4m Vto=2 Kp=94 Cgdmax=1.4n Cgdmin=.18n Cgs=2.4n
Cjo=.72n Is=72p Rb=4m mfg=Siliconix Vds=30 Ron=8m Qg=36n)
.model Si4408DY VDMOS(Rg=3 Vto=2.1 Rd=1.8m Rs=1.4m Rb=2m Kp=50 Cgdmax=1.2n Cgdmin=.5n
Cgs=2.5n Cjo=.6n Is=42p mfg=Siliconix Vds=20 Ron=4.5m Qg=21n)
.model Si4410DY VDMOS(Rg=3 Rd=3m Rs=3m Vto=2.6 Kp=60 Cgdmax=1.9n Cgdmin=50p Cgs=3.1n
Cjo=1n Is=5.5p Rb=5.7m mfg=Siliconix Vds=30 Ron=15m Qg=60n)
.model Si4412DY VDMOS(Rg=3 Rd=5m Rs=8m Vto=2.5 Kp=27 Cgdmax=820p Cgdmin=50p Cgs=1050p
Cjo=1000p Is=.365n Rb=.00719 N=1.27 mfg=Siliconix Vds=30 Ron=30m Qg=29n)

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.model Si4416DY VDMOS(Rg=3 Rd=11.2m Rs=8.4m Vto=2 Kp=54 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.26n Is=26p Rb=14m mfg=Siliconix Vds=30 Ron=28m Qg=13n)
.model Si4425DY VDMOS(pchan Rg=3 Rd=9.2m Rs=6.9m Vto=-1 Kp=64 Cgdmax=3n Cgdmin=.37n
Cgs=4.9n Cjo=1.48n Is=148p Rb=11.5m mfg=Siliconix Vds=-30 Ron=23m Qg=74n)
.model Si4426DY VDMOS(Rg=3 Rd=10m Rs=7.5m Vto=2 Kp=60 Cgdmax=1n Cgdmin=.13n Cgs=1.7n
Cjo=.5n Is=50p Rb=12.5m mfg=Siliconix Vds=20 Ron=25m Qg=25n)
.model Si4427DY VDMOS(pchan Rg=3 Rd=4.8m Rs=3.6m Vto=-1 Kp=86 Cgdmax=1.9n Cgdmin=.24n
Cgs=3.1n Cjo=.94n Is=94p Rb=6m mfg=Siliconix Vds=-30 Ron=12m Qg=47n)
.model Si4430DY VDMOS(Rg=3 Rd=3.2m Rs=2.4m Vto=2 Kp=94 Cgdmax=1.4n Cgdmin=.18n Cgs=2.4n
Cjo=.72n Is=72p Rb=4m mfg=Siliconix Vds=30 Ron=8m Qg=36n)
.model Si4431DY VDMOS(pchan Rg=3 Rd=28m Rs=21m Vto=-1 Kp=10 Cgdmax=.9n Cgdmin=.11n
Cgs=1.5n Cjo=.44n Is=44p Rb=35m mfg=Siliconix Vds=-30 Ron=70m Qg=22n)
.model Si4433DY VDMOS(pchan Rg=3 Vto=-1.2 Rd=44m Rs=33m Rb=55m Kp=30 Cgdmax=.2n
Cgdmin=.07n Cgs=.6n Cjo=.2n Is=9p mfg=Siliconix Vds=-20 Ron=110m Qg=4.4n)
.model Si4442DY VDMOS(Rg=3 Rd=2m Rs=1.5m Vto=2 Kp=100 Cgdmax=1.4n Cgdmin=.18n Cgs=2.4n
Cjo=.72n Is=72p Rb=2.5m mfg=Siliconix Vds=30 Ron=5m Qg=36n)
.model Si4450DY VDMOS(Rg=3 Rd=12m Rs=9m Vto=2 Kp=50 Cgdmax=1.2n Cgdmin=.16n Cgs=2.1n
Cjo=.62n Is=62p Rb=15m mfg=Siliconix Vds=60 Ron=30m Qg=31n)
.model Si4451DY VDMOS(pchan Rg=3 Vto=-.8 Rd=4m Rs=3m Rb=5m Kp=90 Cgdmax=5.2n Cgdmin=1.3n
Cgs=9n Cjo=2.6n Is=260p mfg=Siliconix Vds=-12 Ron=10m Qg=81n)
.model Si4463DY VDMOS(pchan Rg=3 Rd=5.6m Rs=4.2m Vto=-1 Kp=82 Cgdmax=1.9n Cgdmin=.24n
Cgs=3.2n Cjo=.96n Is=96p Rb=7m mfg=Siliconix Vds=-20 Ron=14m Qg=48n)
.model Si4465DY VDMOS(pchan Rg=3 Rd=3.6m Rs=2.7m Vto=-1 Kp=92 Cgdmax=3.2n Cgdmin=.4n
Cgs=5.3n Cjo=1.6n Is=160p Rb=4.5m mfg=Siliconix Vds=-8 Ron=9m Qg=80n)
.model Si4466DY VDMOS(Rg=3 Rd=3.6m Rs=2.7m Vto=2 Kp=92 Cgdmax=2n Cgdmin=.25n Cgs=3.3n
Cjo=1n Is=100p Rb=4.5m mfg=Siliconix Vds=20 Ron=9m Qg=50n)
.model Si4470DY VDMOS(Rg=3 Rd=5.2m Rs=3.9m Vto=2 Kp=84 Cgdmax=1.8n Cgdmin=.23n Cgs=3.1n
Cjo=.92n Is=92p Rb=6.5m mfg=Siliconix Vds=60 Ron=13m Qg=46n)
.model Si4480DY VDMOS(Rg=3 Rd=16m Rs=12m Vto=2 Kp=30 Cgdmax=1.2n Cgdmin=.15n Cgs=2n
Cjo=.6n Is=60p Rb=20m mfg=Siliconix Vds=80 Ron=40m Qg=30n)
.model Si4482DY VDMOS(Rg=3 Rd=32m Rs=24m Vto=2 Kp=10 Cgdmax=1.2n Cgdmin=.15n Cgs=2n
Cjo=.6n Is=60p Rb=40m mfg=Siliconix Vds=100 Ron=80m Qg=30n)
.model Si4484EY VDMOS(Rg=3 Rd=16m Rs=12m Vto=2 Kp=30 Cgdmax=1n Cgdmin=.12n Cgs=1.6n
Cjo=.48n Is=48p Rb=20m mfg=Siliconix Vds=100 Ron=40m Qg=24n)
.model Si4486EY VDMOS(Rg=3 Rd=11.2m Rs=8.4m Vto=2 Kp=54 Cgdmax=1.4n Cgdmin=.18n Cgs=2.4n
Cjo=.72n Is=72p Rb=14m mfg=Siliconix Vds=100 Ron=28m Qg=36n)
.model Si4488DY VDMOS(Rg=3 Rd=20m Rs=15m Vto=2 Kp=10 Cgdmax=1.2n Cgdmin=.15n Cgs=2n
Cjo=.6n Is=60p Rb=25m mfg=Siliconix Vds=150 Ron=50m Qg=30n)
.model Si4490DY VDMOS(Rg=3 Vto=4 Rd=32m Rs=24m Rb=40m Kp=30 Cgdmax=1n Cgdmin=.08n
Cgs=1.7n Cjo=.45n Is=68p mfg=Siliconix Vds=200 Ron=80m Qg=34n)
.model Si4800DY VDMOS(Rg=3 Rd=7.2m Rs=5.4m Vto=2 Kp=74 Cgdmax=.3n Cgdmin=.04n Cgs=.6n
Cjo=.17n Is=17.4p Rb=9m mfg=Siliconix Vds=30 Ron=18m Qg=8.7n)
.model Si4802DY VDMOS(Rg=3 Rd=12m Rs=9m Vto=2 Kp=50 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.26n Is=26p Rb=15m mfg=Siliconix Vds=30 Ron=30m Qg=13n)
.model Si4820DY VDMOS(Rg=3 Rd=8m Rs=6m Vto=2 Kp=70 Cgdmax=.8n Cgdmin=.1n Cgs=1.3n
Cjo=.4n Is=40p Rb=10m mfg=Siliconix Vds=30 Ron=20m Qg=20n)
.model Si4822DY VDMOS(Rg=3 Rd=6m Rs=4.5m Vto=2 Kp=80 Cgdmax=1.2n Cgdmin=.16n Cgs=2.1n
Cjo=.62n Is=62p Rb=7.5m mfg=Siliconix Vds=30 Ron=15m Qg=31n)
.model Si4825DY VDMOS(pchan Rg=3 Rd=8.8m Rs=6.6m Vto=-1 Kp=66 Cgdmax=2.2n Cgdmin=.28n
Cgs=3.7n Cjo=1.1n Is=110p Rb=11m mfg=Siliconix Vds=-30 Ron=22m Qg=55n)
.model Si4835DY VDMOS(pchan Rg=3 Rd=13.2m Rs=9.9m Vto=-1 Kp=44 Cgdmax=.8n Cgdmin=.11n
Cgs=1.4n Cjo=.42n Is=42p Rb=16.5m mfg=Siliconix Vds=-30 Ron=33m Qg=21n)
.model Si4836DY VDMOS(Rg=3 Rd=1.2m Rs=.9m Vto=2 Kp=104 Cgdmax=1.4n Cgdmin=.18n Cgs=2.4n
Cjo=.72n Is=72p Rb=1.5m mfg=Siliconix Vds=12 Ron=3m Qg=36n)
.model Si4838DY VDMOS(Rg=3 Rd=1.2m Rs=.9m Vto=2 Kp=104 Cgdmax=1.6n Cgdmin=.2n Cgs=2.7n
Cjo=.8n Is=80p Rb=1.5m mfg=Siliconix Vds=12 Ron=3m Qg=40n)

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.model Si4842DY VDMOS(Rg=3 Rd=2.4m Rs=1.8m Vto=2 Kp=98 Cgdmax=1n Cgdmin=.13n Cgs=1.7n
Cjo=.5n Is=50p Rb=3m mfg=Siliconix Vds=30 Ron=6m Qg=25n)
.model Si4848DY VDMOS(Rg=3 Rd=38m Rs=28.5m Vto=2 Kp=8 Cgdmax=.7n Cgdmin=.09n Cgs=1.1n
Cjo=.34n Is=34p Rb=47.5m mfg=Siliconix Vds=150 Ron=95m Qg=17n)
.model Si4850EY VDMOS(Rg=3 Rd=12.4m Rs=9.3m Vto=2 Kp=48 Cgdmax=.7n Cgdmin=.09n Cgs=1.2n
Cjo=.36n Is=36p Rb=15.5m mfg=Siliconix Vds=60 Ron=31m Qg=18n)
.model Si4860DY VDMOS(Rg=3 Rd=4.4m Rs=3.3m Vto=2 Kp=88 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.26n Is=26p Rb=5.5m mfg=Siliconix Vds=30 Ron=11m Qg=13n)
.model Si4862DY VDMOS(Rg=3 Rd=1.3m Rs=1m Vto=2 Kp=103 Cgdmax=1.9n Cgdmin=.24n Cgs=3.1n
Cjo=.94n Is=94p Rb=1.7m mfg=Siliconix Vds=16 Ron=3.3m Qg=47n)
.model Si4864DY VDMOS(Rg=3 Rd=1.4m Rs=1.1m Vto=2 Kp=103 Cgdmax=1.9n Cgdmin=.24n Cgs=3.1n
Cjo=.94n Is=94p Rb=1.8m mfg=Siliconix Vds=20 Ron=3.5m Qg=47n)
.model Si4866DY VDMOS(Rg=3 Rd=2.2m Rs=1.7m Vto=2 Kp=99 Cgdmax=.8n Cgdmin=.11n Cgs=1.4n
Cjo=.42n Is=42p Rb=2.8m mfg=Siliconix Vds=12 Ron=5.5m Qg=21n)
.model Si4872DY VDMOS(Rg=3 Rd=4m Rs=3m Vto=2 Kp=90 Cgdmax=1.1n Cgdmin=.14n Cgs=1.8n
Cjo=.54n Is=54p Rb=5m mfg=Siliconix Vds=30 Ron=10m Qg=27n)
.model Si4874DY VDMOS(Rg=3 Rd=4m Rs=3m Vto=2 Kp=90 Cgdmax=1.4n Cgdmin=.18n Cgs=2.3n
Cjo=.7n Is=70p Rb=5m mfg=Siliconix Vds=30 Ron=10m Qg=35n)
.model Si4876DY VDMOS(Rg=3 Rd=2m Rs=1.5m Vto=2 Kp=100 Cgdmax=2.2n Cgdmin=.28n Cgs=3.7n
Cjo=1.1n Is=110p Rb=2.5m mfg=Siliconix Vds=20 Ron=5m Qg=55n)
.model Si4882DY VDMOS(Rg=3 Rd=8m Rs=6m Vto=2 Kp=70 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.27n Is=27p Rb=10m mfg=Siliconix Vds=30 Ron=20m Qg=13.5n)
.model Si4884DY VDMOS(Rg=3 Rd=6.4m Rs=4.8m Vto=2 Kp=78 Cgdmax=.6n Cgdmin=.08n Cgs=1n
Cjo=.31n Is=30.6p Rb=8m mfg=Siliconix Vds=30 Ron=16m Qg=15.3n)
.model Si4886DY VDMOS(Rg=3 Rd=5.2m Rs=3.9m Vto=2 Kp=84 Cgdmax=.6n Cgdmin=.07n Cgs=1n
Cjo=.29n Is=29p Rb=6.5m mfg=Siliconix Vds=30 Ron=13m Qg=14.5n)
.model Si4888DY VDMOS(Rg=3 Rd=4m Rs=3m Vto=2 Kp=90 Cgdmax=.7n Cgdmin=.08n Cgs=1.1n
Cjo=.33n Is=32.6p Rb=5m mfg=Siliconix Vds=30 Ron=10m Qg=16.3n)
.model Si4890DY VDMOS(Rg=3 Rd=8m Rs=6m Vto=2 Kp=70 Cgdmax=.6n Cgdmin=.07n Cgs=.9n
Cjo=.28n Is=28.4p Rb=10m mfg=Siliconix Vds=30 Ron=20m Qg=14.2n)
.model Si4892DY VDMOS(Rg=3 Rd=8m Rs=6m Vto=2 Kp=70 Cgdmax=.3n Cgdmin=.04n Cgs=.6n
Cjo=.17n Is=17.4p Rb=10m mfg=Siliconix Vds=30 Ron=20m Qg=8.7n BV=31 NBV=10) ; avalanche added
.model Si4894DY VDMOS(Rg=3 Rd=7.2m Rs=5.4m Vto=2 Kp=74 Cgdmax=.8n Cgdmin=.1n Cgs=1.3n
Cjo=.4n Is=40p Rb=9m mfg=Siliconix Vds=30 Ron=18m Qg=20n)
.model Si4896DY VDMOS(Rg=3 Vto=2 Rd=8.8m Rs=6.6m Rb=11m Kp=66 Cgdmax=1.4n Cgdmin=.34n
Cgs=2.3n Cjo=.68n Is=68p mfg=Siliconix Vds=80 Ron=22m Qg=34n)
.model Si4920DY VDMOS(Rg=3 Vto=2.8 Rd=12m Rs=9m Rb=15m Kp=50 Cgdmax=1.2n Cgdmin=.1n
Cgs=2n Cjo=.6n Is=60p mfg=Siliconix Vds=30 Ron=30m Qg=30n)
.model Si4940DY VDMOS(Rg=3 Rd=20m Rs=15m Vto=2.7 Kp=15 Lambda=.02 Cgdmax=.4n
Cgdmin=.05n Cgs=.6n Cjo=.18n Is=18p Rb=25m mfg=Siliconix Vds=40 Ron=50m Qg=9n)
.model Si4980DY VDMOS(Rg=3 Rd=38m Rs=28.5m Vto=2 Kp=9 Cgdmax=.6n Cgdmin=.08n Cgs=1n
Cjo=.3n Is=30p Rb=47.5m mfg=Siliconix Vds=80 Ron=95m Qg=15n)
.model Si4982DY VDMOS(Rg=3 Rd=72m Rs=54m Vto=2 Kp=7 Cgdmax=.6n Cgdmin=.08n Cgs=1n
Cjo=.3n Is=30p Rb=90m mfg=Siliconix Vds=100 Ron=180m Qg=15n)
.model Si7106DN VDMOS(Rg=3 Vto=1.5 Rd=2.5m Rs=.6m Rb=3m Kp=105 lambda=.02 Cgdmax=1n
Cgdmin=.2n Cgs=2.5n Cjo=1n Is=100p mfg=Siliconix Vds=20 Ron=6.2m Qg=17.5n)
.model Si7370DP VDMOS(Rg=3 Vto=3.8 Rd=4.8m Rs=3.6m Rb=6m Kp=86 Cgdmax=1.3n Cgdmin=.3n
Cgs=2.7n Cjo=.7n Is=92p mfg=Siliconix Vds=60 Ron=12m Qg=46n)
.model Si7409DN VDMOS(pchan Rg=3 Vto=-0.8 Rd=7.6m Rs=5.7m Rb=10m Kp=72 Cgdmax=1n
Cgdmin=.25n Cgs=1.7n Cjo=.5n Is=50p mfg=Siliconix Vds=-30 Ron=19m Qg=25n)
.model Si7540DP_N VDMOS(Rg=3 Vto=1.4 Rd=8m Rs=6m Rb=10m Kp=70 Cgdmax=.5n Cgdmin=.12n
Cgs=.8n Cjo=.24n Is=24p mfg=Siliconix Vds=12 Ron=20m Qg=12n)
.model Si7540DP_P VDMOS(pchan Rg=3 Vto=-1.3 Rd=16m Rs=12m Rb=20m Kp=30 Cgdmax=.6n
Cgdmin=.14n Cgs=.9n Cjo=.28n Is=28p mfg=Siliconix Vds=-12 Ron=40m Qg=14n)
.model Si7810DN VDMOS(Rg=3 Vto=3.9 Rd=24.8m Rs=18.6m Rb=31m Kp=10 Cgdmax=4n Cgdmin=.5n
Cgs=.7n Cjo=1n Is=50p mfg=Siliconix Vds=100 Ron=62m Qg=13.5n)

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.model Si7850DP VDMOS(Rg=3 Vto=3.1 Rd=10.4m Rs=7.8m Rb=13m Kp=58 Cgdmax=.5n Cgdmin=.1n
Cgs=.9n Cjo=.25n Is=36p mfg=Siliconix Vds=60 Ron=26m Qg=18n)
.model Si7852DP VDMOS(Rg=4 Vto=4.1 Rd=6.4m Rs=4.8m Rb=8m Kp=78 Cgdmax=1.4n Cgdmin=.1n
Cgs=1.5n Cjo=.68n Is=68p mfg=Siliconix Vds=80 Ron=16m Qg=34n)
.model Si7866DP VDMOS(Rg=3 Rd=1.6m Rs=1.2m Vto=1.2 Kp=50 Cgdmax=1.6n Cgdmin=.2n Cgs=2.7n
Cjo=.8n Is=80p Rb=2m mfg=Siliconix Vds=20 Ron=4m Qg=40n)
.model Si7868DP VDMOS(Rg=3 Rd=1.2m Rs=.9m Vto=1.2 Kp=50 Cgdmax=2n Cgdmin=.25n Cgs=3.3n
Cjo=1n Is=100p Rb=1.5m mfg=Siliconix Vds=20 Ron=3m Qg=50n)
.model Si9400DY VDMOS(pchan Rg=3 Rd=160m Rs=120m Vto=-1 Kp=5 Cgdmax=.2n Cgdmin=.03n
Cgs=.4n Cjo=.11n Is=10.8p Rb=200m mfg=Siliconix Vds=-20 Ron=400m Qg=5.4n)
.model Si9407AEY VDMOS(pchan Rg=3 Rd=60m Rs=45m Vto=-1 Kp=5 Cgdmax=.7n Cgdmin=.09n
Cgs=1.2n Cjo=.36n Is=36p Rb=75m mfg=Siliconix Vds=-60 Ron=150m Qg=18n)
.model Si9410DY VDMOS(Rg=3 Rd=20m Rs=15m Vto=2 Kp=10 Cgdmax=1n Cgdmin=.12n Cgs=1.6n
Cjo=.48n Is=48p Rb=25m mfg=Siliconix Vds=30 Ron=50m Qg=24n)
.model Si9420DY VDMOS(Rg=3 Rd=400m Rs=300m Vto=2 Kp=5 Cgdmax=.3n Cgdmin=.04n Cgs=.6n
Cjo=.17n Is=17.2p Rb=500m mfg=Siliconix Vds=200 Ron=1000m Qg=8.6n)
.model Si9424DY VDMOS(pchan Rg=3 Rd=10m Rs=7.5m Vto=-1 Kp=60 Cgdmax=1.8n Cgdmin=.23n
Cgs=3.1n Cjo=.92n Is=92p Rb=12.5m mfg=Siliconix Vds=-20 Ron=25m Qg=46n)
.model Si9426DY VDMOS(Rg=3 Rd=5.2m Rs=3.9m Vto=2 Kp=84 Cgdmax=1.9n Cgdmin=.24n Cgs=3.1n
Cjo=.94n Is=94p Rb=6.5m mfg=Siliconix Vds=20 Ron=13m Qg=47n)
.model Si9428DY VDMOS(Rg=3 Rd=12m Rs=9m Vto=2 Kp=50 Cgdmax=.8n Cgdmin=.11n Cgs=1.4n
Cjo=.42n Is=42p Rb=15m mfg=Siliconix Vds=20 Ron=30m Qg=21n)
.model Si9433DY VDMOS(pchan Rg=3 Rd=18m Rs=13.5m Vto=-1 Kp=20 Cgdmax=.8n Cgdmin=.1n
Cgs=1.3n Cjo=.4n Is=40p Rb=22.5m mfg=Siliconix Vds=-20 Ron=45m Qg=20n)
.model Si9434DY VDMOS(pchan Rg=3 Rd=16m Rs=12m Vto=-1 Kp=30 Cgdmax=1.2n Cgdmin=.15n
Cgs=2n Cjo=.6n Is=60p Rb=20m mfg=Siliconix Vds=-20 Ron=40m Qg=30n)
.model Si9435DY VDMOS(pchan Rg=3 Rd=28m Rs=21m Vto=-1 Kp=10 Cgdmax=1.1n Cgdmin=.14n
Cgs=1.8n Cjo=.54n Is=54p Rb=35m mfg=Siliconix Vds=-30 Ron=70m Qg=27n)
.model Si9436DY VDMOS(Rg=3 Rd=24m Rs=18m Vto=2 Kp=15 Cgdmax=.6n Cgdmin=.07n Cgs=.9n
Cjo=.28n Is=28p Rb=30m mfg=Siliconix Vds=30 Ron=60m Qg=14n)
.model Si9803DY VDMOS(pchan Rg=3 Rd=16m Rs=3m Vto=-1.4 Kp=22 Cgdmax=1.4n Cgdmin=.3n
cgs=1.1n Cjo=1n Is=.023nA Rb=9.6m N=1.09 mfg=Siliconix Vds=-25 Ron=33m Qg=15.8n)
.model Si9804DY VDMOS(Rg=3 Rd=9.2m Rs=6.9m Vto=2 Kp=64 Cgdmax=.5n Cgdmin=.07n Cgs=.9n
Cjo=.27n Is=27p Rb=11.5m mfg=Siliconix Vds=25 Ron=23m Qg=13.5n)
.model Si9936DY VDMOS(Rg=3 Rd=10m Rs=2m Vto=2.3 Kp=11 Cgdmax=580p Cgdmin=20p Cgs=560p
Cjo=800p Is=7.94p Rb=16.9m mfg=Siliconix Vds=30 Ron=80m Qg=35n)
.model uPA1706 VDMOS(Rg=3 Rd=2.8m Rs=2.1m Vto=2 Kp=96 Cgdmax=2.2n Cgdmin=.28n Cgs=3.7n
Cjo=1.12n Is=112p Rb=3.5m mfg=NEC Vds=30 Ron=7m Qg=56n)
.model uPA1707 VDMOS(Rg=3 Rd=5m Rs=3.8m Vto=2 Kp=85 Cgdmax=1n Cgdmin=.13n Cgs=1.7n
Cjo=.52n Is=52p Rb=6.3m mfg=NEC Vds=30 Ron=12.5m Qg=26n)
.model IRF7821 VDMOS(Rg=3 Vto=2.2 Rd=3.6m Rs=.9m Rb=5m Kp=30 lambda=.01 Cgdmax=.5n
Cgdmin=.12n Cgs=.8n Cjo=.25n Is=26p mfg=International_Rectifier Vds=30 Ron=9.1m Qg=9.3n)
.model FDS4685 VDMOS(pchan Rg=3 Vto=-1.8 Rd=10.8m Rs=2.7m Rb=14m Kp=22 lambda=.005
Cgdmax=1n Cgdmin=.25n Cgs=1.5n Cjo=.5n Is=50p mfg=Fairchild Vds=-40 Ron=27m Qg=19n)
.model FDW2503NZ VDMOS(Rg=3 Vto=1 Rd=8m Rs=2m Rb=10m Kp=30 lambda=.02 Cgdmax=.7n
Cgdmin=.16n Cgs=1n Cjo=.3n Is=35p mfg=Fairchild Vds=20 Ron=20m Qg=12n)
.model Si7465DP VDMOS(pchan Rg=3 Vto=-2.4 Rd=25.6m Rs=6.4m Rb=32m Kp=16 lambda=.01
Cgdmax=.8n Cgdmin=.2n Cgs=1.3n Cjo=.41n Is=40p mfg=Siliconix Vds=-60 Ron=64m Qg=26n)
.model IRF1310 VDMOS(Rg=3 Vto=3.7 Rd=14.4m Rs=3.6m Rb=18m Kp=14 lambda=.01 Cgdmax=5n
Cgdmin=1n Cgs=1n Cjo=2.2n Is=220p mfg=International_Rectifier Vds=100 Ron=36m Qg=110n)
.model Si7884DP VDMOS(Rg=3 Vto=2.2 Rd=.1m Rs=.7m Rb=4m Kp=50 lambda=.05 Cgdmax=1n
Cgdmin=.3n Cgs=2.4n Cjo=.8n Is=37p mfg=Siliconix Vds=40 Ron=7m Qg=18.5n)
.model NDC7002N VDMOS(Rg=3 Vto=2.2 Rd=.8 Rs=.2 Rb=1 Kp=.4 lambda=.01 Cgdmax=.05n
Cgdmin=.02n Cgs=.02n Cjo=.02n Is=2p mfg=Fairchild Vds=50 Ron=2000m Qg=1n)
.model FDR840P VDMOS(pchan Rg=3 Vto=-0.9 Rd=4.8m Rs=1.2m Rb=6m Kp=50 lambda=.02
Cgdmax=3n Cgdmin=.8n Cgs=3.7n Cjo=1.2n Is=82p mfg=Fairchild Vds=-20 Ron=12m Qg=41n)

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.model Si7942DP VDMOS(Rg=3 Vto=3.4 Rd=20m Rs=5m Rb=25m Kp=10 lambda=.01 Cgdmax=.6n
Cgdmin=.2n Cgs=.8n Cjo=.32n Is=32p mfg=Siliconix Vds=100 Ron=49m Qg=16n)
.model Si7368DP VDMOS(Rg=3 Vto=1.5 Rd=2.2m Rs=.6m Rb=3m Kp=50 lambda=.01 Cgdmax=1.7n
Cgdmin=.25n Cgs=1.7n Cjo=.6n Is=34p mfg=Siliconix Vds=20 Ron=5.5m Qg=17n)
.model Si5515_N VDMOS(Rg=3 Vto=.7 Rd=16m Rs=4m Rb=20m Kp=22 lambda=.05 Cgdmax=.3n
Cgdmin=.08n Cgs=.5n Cjo=.2n Is=10p mfg=Siliconix Vds=20 Ron=40m Qg=5n)
.model Si5515_P VDMOS(pchan Rg=3 Vto=-1 Rd=34.4m Rs=8.6m Rb=43m Kp=8 lambda=.01
Cgdmax=.3n Cgdmin=.06n Cgs=.6n Cjo=.15n Is=11p mfg=Siliconix Vds=-20 Ron=86m Qg=5.5n)
.model Si4542DY_P VDMOS(pchan Rg=3 Vto=-2.5 Rd=12.8m Rs=3.2m Rb=16m Kp=16 lambda=.01
Cgdmax=1n Cgdmin=.2n Cgs=2.1n Cjo=.64n Is=64p mfg=Siliconix Vds=-30 Ron=32m Qg=32n)
.model Si4542DY_N VDMOS(Rg=3 Vto=2.6 Rd=10m Rs=2.5m Rb=13m Kp=25 lambda=.02 Cgdmax=1n
Cgdmin=.1n Cgs=2n Cjo=.6n Is=60p mfg=Siliconix Vds=30 Ron=25m Qg=30n)
.model Si4816BDY_1 VDMOS(Rg=3 Vto=2.3 Rd=7.6m Rs=1.9m Rb=10m Kp=30 lambda=.01 Cgdmax=.5n
Cgdmin=.1n Cgs=.6n Cjo=.2n Is=16p mfg=Vishay Vds=30 Ron=19m Qg=7.8n)
.model Si4816BDY_2 VDMOS(Rg=3 Vto=2.5 Rd=4.8m Rs=1.2m Rb=6m Kp=30 lambda=.01 Cgdmax=.4n
Cgdmin=.15n Cgs=1n Cjo=.3n Is=23p mfg=Vishay Vds=30 Ron=12m Qg=11.6n)
.model IRF510 VDMOS(Rg=3 Vto=3.8 Rd=200m Rs=54m Rb=250m lambda=.01 Kp=1.3 Cgdmax=.3n
Cgdmin=.08n Cgs=.1n Cjo=.17n Is=17p mfg=International_Rectifier Vds=100 Ron=540m Qg=8.3n)
.model IRF530 VDMOS(Rg=3 Vto=4 Rd=50m Rs=12m Rb=60m Kp=5 lambda=.01 Cgdmax=1n
Cgdmin=.26n Cgs=.2n Cjo=.4n Is=52p mfg=International_Rectifier Vds=100 Ron=160m Qg=26n)
.model STD30NF06L VDMOS(Rg=3 Vto=1.7 Rd=11.2m Rs=2.8m Rb=14m Kp=25 lambda=.02
Cgdmax=.9n Cgdmin=.18n Cgs=2.5n Cjo=.8n Is=70p mfg=STMicroelectronics Vds=60 Ron=28m Qg=23n)
.model IRF6644 VDMOS(Rg=3 Vto=4.4 Rd=4m Rs=1m Rb=5m Kp=15 lambda=.1 Cgdmax=1.5n
Cgdmin=.3n Cgs=1.7n Cjo=.6n Is=70p mfg=International_Rectifier Vds=100 Ron=10m Qg=35n)
.model Si7469DP VDMOS(pchan Rg=3 Vto=-2.5 Rd=10m Rs=2.5m Rb=13m Kp=50 lambda=.02
Cgdmax=2.7n Cgdmin=.6n Cgs=5n Cjo=1.4n Is=130p mfg=Siliconix Vds=-80 Ron=25m Qg=55n)
.model HAT2165H VDMOS(Rg=3 Vto=1.8 Rd=1m Rs=.3m Rb=1m Kp=100 lambda=.07 Cgdmax=2n
Cgdmin=.5n Cgs=5.5n Cjo=2n Is=150p mfg=Renesas Vds=30 Ron=2.5m Qg=33n)
.model HAT2244WP VDMOS(Rg=3 Vto=2.1 Rd=4m Rs=1m Rb=5m Kp=70 lambda=.05 Cgdmax=2.4n
Cgdmin=.2n Cgs=3n Cjo=1.2n Is=120p mfg=Renesas Vds=80 Ron=10m Qg=60n)
.model PHM21NQ15T VDMOS(Rg=3 Vto=3.3 Rd=22m Rs=5.5m Rb=28m Kp=50 lambda=.02 Cgdmax=.9n
Cgdmin=.13n Cgs=1.5n Cjo=.4n Is=30p mfg=Philips Vds=150 Ron=55m Qg=36n)
.model IRF6617 VDMOS(Rg=2 Vto=2.42 Rd=4.5m Rs=.8m Rb=3m Kp=60 lambda=.01 mtriode=3
Cgdmax=.7n Cgdmin=.15n Cgs=1.1n Cjo=.5n Is=1.5p mfg=International_Rectifier Vds=30 Ron=8m
Qg=11n)
.model Si4425BDY VDMOS(pchan Rg=3 Vto=-2.5 Rd=4.8m Rs=1.2m Rb=6m Kp=29 lambda=.03
Cgdmax=2.6n Cgdmin=.64n Cgs=2.8n Cjo=1n Is=120p mfg=Siliconix Vds=-30 Ron=12m Qg=64n)
.model STS12NF30L VDMOS(Rg=3 Vto=1.7 Rd=3.2m Rs=.8m Rb=4m Kp=25 Cgdmax=2n Cgdmin=.7n
Cgs=2.3n Cjo=.7n Is=70p mfg=STMicroelectronics Vds=30 Ron=8m Qg=35n)
.model Si9434BDY VDMOS(pchan Rg=3 Vto=-.9 Rd=16m Rs=4m Rb=20m Kp=20 lambda=.01
Cgdmax=1n Cgdmin=.17n Cgs=.8n Cjo=.24n Is=30p mfg=Siliconix Vds=-20 Ron=40m Qg=12n)
.model Si4336DY VDMOS(Rg=3 Vto=2.7 Rd=1.2m Rs=.3m Rb=2m Kp=110 lambda=.01 Cgdmax=2n
Cgdmin=.5n Cgs=4n Cjo=1.5n Is=72p mfg=Siliconix Vds=30 Ron=3m Qg=36n)
.model Si4840DY VDMOS(Rg=3 Vto=2.2 Rd=1m Rs=.9m Rb=5m Kp=50 lambda=.07 Cgdmax=.8n
Cgdmin=.19n Cgs=2.2n Cjo=.8n Is=38p mfg=Siliconix Vds=40 Ron=9m Qg=19n)
.model IRF7413ZPbF VDMOS(Rg=3 Vto=2.3 Rd=4m Rs=1m Rb=5m Kp=62 lambda=.03 Cgdmax=.4n
Cgdmin=.2n Cgs=1n Cjo=.8n Is=19p mfg=International_Rectifier Vds=30 Ron=10m Qg=9.5n)
.model IRF7805ZPbF VDMOS(Rg=3 Vto=2.4 Rd=2.7m Rs=.7m Rb=3m Kp=64 lambda=.03 Cgdmax=1.5n
Cgdmin=.3n Cgs=1.2n Cjo=.36n Is=36p mfg=International_Rectifier Vds=30 Ron=6.8m Qg=18n)
.model IRF6629PbF VDMOS(Rg=3 Vto=2.3 Rd=.6m Rs=.2m Rb=1m Kp=150 lambda=.04 Cgdmax=1.7n
Cgdmin=.4n Cgs=3n Cjo=.8n Is=68p mfg=International_Rectifier Vds=25 Ron=1.6m Qg=34n)
.model Si7218DN VDMOS(Rg=3 Vto=2.5 Rd=10m Rs=2.5m Rb=13m Kp=20 lambda=.05 Cgdmax=.45n
Cgdmin=.05n Cgs=.5n Cjo=.2n Is=10p mfg=Siliconix Vds=30 Ron=25m Qg=5n)
.model RSQ035P03 VDMOS(pchan Rg=3 Vto=-1.65 Rd=26m Rs=6.5m Rb=13m Kp=10.2 Lambda=.01
Cgdmax=.3n Cgdmin=.12n Cgs=.76n Cjo=.76n Is=15p mfg=Rohm Vds=-30 Ron=65m Qg=9.2n)
.model FDC5614P VDMOS(pchan Rg=3 Vto=-1.85 Rd=42m Rs=10.5m Rb=21m Kp=8. Lambda=.02
Cgdmax=.34n Cgdmin=.05n Cgs=.96n Cjo=.96n Is=17p mfg=Fairchild Vds=-60 Ron=105m Qg=15n)

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.model IRF8910 VDMOS(Rg=2.7 Vto=2.45 Rd=5.2m Rs=1.3m Rb=2.6m Kp=31.4 Lambda=.1
Cgdmax=.46n Cgdmin=.11n Cgs=.6n Cjo=.6n Is=23p mfg=International_Rectifier Vds=20 Ron=13m
Qg=7.4n)
.model Si7224DN_1 VDMOS(Rg=3.3 Vto=2. Rd=14m Rs=3.5m Rb=7m Kp=22. Lambda=.06 Cgdmax=.44n
Cgdmin=.001n Cgs=.49n Cjo=.49n Is=22p mfg=Siliconix Vds=30 Ron=35m Qg=9.5n)
.model Si7224DN_2 VDMOS(Rg=2.7 Vto=2.5 Rd=11.2m Rs=2.8m Rb=5.6m Kp=15.4 Lambda=.05
Cgdmax=.62n Cgdmin=.01n Cgs=.51n Cjo=.51n Is=31p mfg=Siliconix Vds=30 Ron=28m Qg=12n)
.model Si4630DY VDMOS(Rg=1.5 Vto=1.9 Rd=1m Rs=.3m Rb=.5m Kp=80 Lambda=.05 Cgdmax=6.1n
Cgdmin=.2n Cgs=5n Cjo=5n Is=305p mfg=Siliconix Vds=25 Ron=2.7m Qg=108n)
.model Si4420DY VDMOS(Rg=1.5 Vto=2.65 Rd=3.4m Rs=.8m Rb=1.7m Kp=71.4 Lambda=.02
Cgdmax=1.1n Cgdmin=.1n Cgs=1.77n Cjo=1.77n Is=55p mfg=Siliconix Vds=30 Ron=8.5m Qg=16n)
.model RJK0301DPB VDMOS(Rg=.8 Vto=2.15 Rd=.9m Rs=.2m Rb=.5m Kp=170. Lambda=.06
Cgdmax=1n Cgdmin=.4n Cgs=4n Cjo=.56n Is=56p mfg=Renesas Vds=30 Ron=2.3m Qg=32n)
.model RJK0305DPB VDMOS(Rg=.6 Vto=1.95 Rd=2.7m Rs=.7m Rb=1.3m Kp=40.8 Lambda=.07
Cgdmax=.96n Cgdmin=.05n Cgs=.98n Cjo=.98n Is=48p mfg=Renesas Vds=30 Ron=6.7m Qg=8n)
.model NTMD4N03R2 VDMOS(Rg=7 Vto=2.3 Rd=25m Rs=6m Rb=10m Kp=12 Cgdmax=.65n
Cgdmin=.06n Cgs=.13n Cjo=.13n Is=32p mfg=Onsemi Vds=30 Ron=48m Qg=8n)
.model Si7802DN VDMOS(Rg=1.6 Vto=3.65 Rd=250m Rs=60m Rb=100m Kp=8. Lambda=.07
Cgdmax=.45n Cgdmin=.015n Cgs=.73n Cjo=.73n Is=22p mfg=Siliconix Vds=250 Ron=435m Qg=14n)
.model FDH210N08 VDMOS(Rg=3 Vto=3.8 Rd=2.2m Rs=.6m Rb=3m Kp=100 lambda=.05 Cgdmax=9.3n
Cgdmin=2.32n Cgs=4n Cjo=4.64n Is=464p mfg=Fairchild Vds=75 Ron=5.5m Qg=232n)
.model IXTK200N10P VDMOS(Rg=3 Vto=5.35 Rd=3m Rs=.8m Rb=4m Kp=70 lambda=.06 Cgdmax=2n
Cgdmin=1.5n Cgs=12n Cjo=4.8n Is=480p mfg=IXYS Vds=100 Ron=7.5m Qg=240n)
.model IRLR2908 VDMOS(Rg=3 Vto=2.15 Rd=11.2m Rs=2.8m Rb=5.6m Kp=50. Lambda=.07
Cgdmax=.88n Cgdmin=.1n Cgs=2.44n Cjo=2.44n Is=44p mfg=International_Rectifier Vds=80 Ron=28m
Qg=22n)
.model IRFP240 VDMOS(Rg=3 Vto=4 Rd=72m Rs=18m Rb=36m Kp=4.9 Lambda=.03 Cgdmax=1.34n
Cgdmin=.1n Cgs=1.25n Cjo=1.25n Is=67p mfg=International_Rectifier Vds=200 Ron=180m Qg=70n)
.model IRFP9240 VDMOS(pchan Rg=3 Vto=-4 Rd=200m Rs=50m Rb=100m Kp=8.2 Lambda=.10
Cgdmax=1.8n Cgdmin=.07n Cgs=.77n Cjo=.77n Is=76p mfg=International_Rectifier Vds=-200 Ron=500m
Qg=44n)
.model Si7686DP VDMOS(Rg=.8 Vto=2.77 Rd=4m Rs=1.6m Kp=101.2 Lambda=.01 Cgdmax=.8n
Cgdmin=.1n Cgs=.65n Cjo=.6n Rb=2m Is=.92f N=.824 tt=60n mfg=Siliconix Vds=30 Ron=8m Qg=17n)
.model STD95N04 VDMOS(Rg=3 Vto=3.68 Rd=2.7m Rs=1.1m Kp=51 Lambda=.11 Cgdmax=1.2n
Cgdmin=.4n Cgs=1.47n Cjo=1.54n Vj=.51 m=.56 Rb=2m Is=79u N=2.325 tt=45n mfg=ST Vds=40
Ron=5.4m Qg=40n)
.model Si7386DP VDMOS(Rg=1.7 Vto=2.57 Rd=3.5m Rs=1.4m Kp=58 Lambda=.014 Cgdmax=.67n
Cgdmin=.1n Cgs=1.56n Cjo=1.56n Rb=6m Is=2.3p N=1.075 tt=25n mfg=Siliconix Vds=30 Ron=7m
Qg=11.5n)
.model Si7234DP VDMOS(Rg=1 Vto=1.2 Rd=.25m Rs=.25m Rb=2.5m Kp=100 Lambda=.02 Cgdmax=3.5n
Cgdmin=400p Cgs=4.1n Cjo=2n Is=90p mfg=Siliconix Vds=12 Ron=3.5m Qg=80n)
.model Si4913DY VDMOS(pchan Rg=1 Vto=-.9 Rd=6m Rs=6m Rb=10m Kp=100 Lambda=.02 Cgdmax=2n
Cgdmin=200p Cgs=2n Cjo=1n Is=200p mfg=Siliconix Vds=-20 Ron=15m Qg=43n)
.model Si7998DP_1 VDMOS(Rg=2 Vto=2.5 Rd=5m Rs=1m Rb=3.6m Kp=100 lambda=0.07 Cgs=1.1n
Cgdmin=100p Cgdmax=400p Cjo=1n Is=1p mfg=Vishay Vds=30 Ron=9m Qg=17n)
.model Si7998DP_2 VDMOS(Rg=2 Vto=2.5 Rd=2.5m Rs=.5m Rb=2.8m Kp=150 lambda=0.07 Cgs=2.2n
Cgdmin=200p Cgdmax=800p Cjo=1n Is=2p mfg=Vishay Vds=30 Ron=5m Qg=32n)
.model SUP90N08-8m2P VDMOS(Rg=2 Vto=4.3 Rd=5m Rs=1m Rb=6m Kp=35 lambda=0.03 Cgs=4n
Cgdmin=250p Cgdmax=500p Cjo=2n Is=4p mfg=Vishay Vds=75 Ron=8.2m Qg=58n)
.model Si5902DC VDMOS(Rg=2 Vto=2.4 Rs=60m Rb=25m Kp=8 Cgs=200p Cgdmin=50p Cgdmax=175p
Cjo=175p Is=.1p mfg=Vishay Vds=30 Ron=143m Qg=5n)
.model IRFP4668 VDMOS(Rg=2 Vto=4.85 Rd=1m Rs=1m Rb=1.2m Kp=33 lambda=0.01 Cgs=8n
Cgdmin=500p Cgdmax=1n Cjo=4n Is=2n mfg=International_Rectifier Vds=200 Ron=8m Qg=161n)
.MODEL DN2530 NMOS (LEVEL=3 RS=0.25 NSUB=5.0E14 DELTA=0.1 KAPPA=0.20 TPG=1
CGDO=3.1716E-10 RD=7.0 VTO=-2.20 VMAX=1.0E7 ETA=0.0223089 NFS=6.6E10 TOX=750E-10
LD=1.698E-9 UO=862.425 XJ=6.4666E-7 THETA=1.0E-5 CGSO=2.50E-9 L=3.0E-6 W=59E-3 KP=12E-6)

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.MODEL DN2535 NMOS (LEVEL=3 RS=1.05 NSUB=5.0E14 DELTA=0.1 KAPPA=0.20 TPG=1
CGDO=3.1716E-10 RD=11 VTO=-1.50 VMAX=1.0E7 ETA=0.0223089 NFS=6.6E10 TOX=725E-10
LD=1.698E-9 UO=862.425 XJ=6.4666E-7 THETA=1.0E-5 CGSO=2.50E-9 L=4.0E-6 W=59E-3)
.MODEL DN2540 NMOS (LEVEL=3 RS=1.05 NSUB=5.0E14 DELTA=0.1 KAPPA=0.20 TPG=1
CGDO=3.1716E-10 RD=11 VTO=-1.50 VMAX=1.0E7 ETA=0.0223089 NFS=6.6E10 TOX=725E-10
LD=1.698E-9 UO=862.425 XJ=6.4666E-7 THETA=1.0E-5 CGSO=2.50E-9 L=4.0E-6 W=59E-3)
.MODEL LND150 NMOS (LEVEL=3 RS=150.00 NSUB=5.0E13 DELTA=0.1 KAPPA=1.0 TPG=1
CGDO=2.1716E-12 RD=40.0 VTO=-2.0 VMAX=1.0E8 ETA=0.1 NFS=6.6E10 TOX=1.0E-7 LD=1.698E-9
UO=862.425 XJ=6.4666E-7 THETA=1.0E-5 CGSO=5.09E-10 L=10.0E-6 W=600E-6)
.MODEL LND250 NMOS (LEVEL=3 RS=150.00 NSUB=5.0E13 DELTA=0.1 KAPPA=1.0 TPG=1
CGDO=2.1716E-12 RD=40.0 VTO=-2.0 VMAX=1.0E8 ETA=0.1 NFS=6.6E10 TOX=1.0E-7 LD=1.698E-9
UO=862.425 XJ=6.4666E-7 THETA=1.0E-5 CGSO=5.09E-10 L=10.0E-6 W=600E-6)
.MODEL 2SK1489 NMOS(LEVEL=3 L=2u W=4.8 KP=1.0362u RS=10m RD=.7366 VTO=2.2500
RDS=5.3333E6 TOX=2u CGSO=1.9n CGDO=31.4p CBD=3.74n MJ=1.1448 PB=2.0044 RG=10m
IS=5.1802m N=5 RB=1n GAMMA=0 KAPPA=0)
.MODEL IXFH58N20 NMOS LEVEL=3 L=2u W=58 KP=1.043u RS=10m RD=24.491m VTO=3.6288
RDS=8MEG TOX=2u CGSO=154.48p CGDO=7.6p CBD=3.6792n MJ=1.0215 PB=3 RG=10m IS=11.429u
N=2.3157 RB=1u GAMMA=0 KAPPA=0
.model IRF8721 VDMOS(Rg=1.8 Vto=2.273 Rd=4.117m Rs=1.2m Rb=0.42m Kp=82 Cgdmax=0.465n
Cgdmin=0.112n Cgs=0.926n Cjo=0.28n Is=13p mfg=International_Rectifier Vds=30 Ron=6.9m Qg=8.3n)
.model ZXM62P02E6 VDMOS(pchan Rg=2 Vto=-1 Rd=0 Rs=0 Rb=40m Kp=2 lambda=0.01 Cgs=300p
Cgdmin=10p Cgdmax=500p Cjo=500p Is=3p mfg=Zetex Vds=-20 Ron=.2 Qg=5.8n)
.model IRF7309N VDMOS(Rg=3 Vto=2.26 Rd=3.58m Rs=21.5m Rb=12m Kp=18.8 Cgdmax=0.87n
Cgdmin=0.10n Cgs=0.33n Cjo=0.292n Is=39f mfg=International_Rectifier Vds=30v Ron=32m Qg=8.7n)
.model IRF7309P VDMOS(pchan Rg=3 Vto=-2.1 Rd=12.3m Rs=40m Rb=22.5m Kp=6.5 Cgdmax=0.69n
Cgdmin=0.172n Cgs=0.30n Cjo=0.283n Is=45p mfg=International_Rectifier Vds=-30 Ron=72m Qg=9.1n)
.model AP9465GEM VDMOS(Rg=2 Vto=1.8 Rd=0 Rs=16m Rb=10m Kp=30 lambda=0.04 Cgs=600p
Cgdmin=50p Cgdmax=800p Cjo=1.2n Is=3p mfg=Advanced_Power_Electronics Vds=40 Ron=25m
Qg=8.5n)
.model SUM40N10-30 VDMOS(Rg=2 Vto=3.95 Rd=13m Rs=7m Rb=3m lambda=.05 Kp=90 mtriode=1.5
Cgdmax=1n Cgdmin=.1n Cgs=2n Cjo=1.5n Is=5p mfg=Vishay Vds=100 Ron=34m Qg=35n)
.model IRLR3802 VDMOS(Rg=3 Vto=1.39 Rd=0.16188m Rs=0.5m Rb=5.75m Kp=56 Cgdmax=2.1n
Cgdmin=.5n Cgs=2n Cjo=2.5n Is=2.7p mfg=International_Rectifier Vds=12 Ron=6.5m Qg=27n)
.model BSB012N03LX3 VDMOS(Rg=0.5 Vto=2.77 Rd=612u Rs=183u Rb=383u Kp=1084 Lambda=0.09
Cgdmin=155p Cgdmax=2.32n A=0.6 Cgs=9.61n Cjo=8.84n M=0.3 Is=84p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.2m Qg=62n)
.model BSB012N03MX3 VDMOS(Rg=0.5 Vto=2.52 Rd=572u Rs=183u Rb=373u Kp=1182.4 Lambda=0.07
Cgdmin=221p Cgdmax=3.09n A=0.6 Cgs=12.71n Cjo=8.84n M=0.3 Is=77.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.2m Qg=82n)
.model BSB014N04LX3 VDMOS(Rg=1 Vto=2.89 Rd=692u Rs=183u Rb=343u Kp=1084 Lambda=0.09
Cgdmin=155p Cgdmax=2.32n A=0.6 Cgs=11.38n Cjo=7.46n M=0.3 Is=84p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.2m Qg=71n)
.model BSB015N04NX3 VDMOS(Rg=1 Vto=4.95 Rd=612u Rs=183u Rb=343u Kp=580.5 Lambda=0.03
Cgdmin=111p Cgdmax=1.55n A=0.6 Cgs=8.4n Cjo=7.46n M=0.3 Is=84p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.5m Qg=114n)
.model BSB017N03LX3 VDMOS(Rg=0.5 Vto=2.77 Rd=1.06m Rs=203u Rb=563u Kp=599.1 Lambda=0.09
Cgdmin=85p Cgdmax=1.28n A=0.6 Cgs=5.31n Cjo=5.14n M=0.3 Is=46.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.7m Qg=34n)
.model BSB017N03MX3 VDMOS(Rg=0.5 Vto=2.52 Rd=1m Rs=203u Rb=543u Kp=653.4 Lambda=0.07
Cgdmin=122p Cgdmax=1.71n A=0.6 Cgs=7.02n Cjo=5.14n M=0.3 Is=42.7p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.7m Qg=45n)
.model BSC014N03LS VDMOS(Rg=1.5 Vto=2.77 Rd=770u Rs=231u Rb=491u Kp=840 Lambda=0.09
Cgdmin=120p Cgdmax=1.8n A=0.6 Cgs=7.45n Cjo=6.99n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.4m Qg=48n)
.model BSC014N03MS VDMOS(Rg=1.5 Vto=2.52 Rd=730u Rs=231u Rb=481u Kp=916.2 Lambda=0.07
Cgdmin=171p Cgdmax=2.4n A=0.6 Cgs=9.85n Cjo=6.99n M=0.3 Is=59.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.4m Qg=63n)

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.model BSC016N03LS VDMOS(Rg=1.5 Vto=2.77 Rd=770u Rs=381u Rb=641u Kp=840 Lambda=0.09
Cgdmin=120p Cgdmax=1.8n A=0.6 Cgs=7.45n Cjo=6.99n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=1.6m Qg=48n)
.model BSC016N03MS VDMOS(Rg=1.3 Vto=2.52 Rd=730u Rs=381u Rb=631u Kp=916.2 Lambda=0.07
Cgdmin=171p Cgdmax=2.4n A=0.6 Cgs=9.85n Cjo=6.99n M=0.3 Is=59.9p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=2.0m Qg=63n)
.model BSC016N04LS VDMOS(Rg=1.5 Vto=2.89 Rd=880u Rs=231u Rb=441u Kp=840 Lambda=0.09
Cgdmin=120p Cgdmax=1.8n A=0.6 Cgs=8.82n Cjo=5.87n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.6m Qg=55n)
.model BSC017N04NS VDMOS(Rg=1.5 Vto=4.95 Rd=770u Rs=231u Rb=441u Kp=449.8 Lambda=0.03
Cgdmin=86p Cgdmax=1.2n A=0.6 Cgs=6.51n Cjo=5.87n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.7m Qg=89n)
.model BSC018N04LS VDMOS(Rg=1.3 Vto=2.89 Rd=880u Rs=381u Rb=591u Kp=840 Lambda=0.09
Cgdmin=120p Cgdmax=1.8n A=0.6 Cgs=8.82n Cjo=5.87n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.8m Qg=55n)
.model BSC019N04NS VDMOS(Rg=1.3 Vto=4.95 Rd=770u Rs=381u Rb=591u Kp=449.8 Lambda=0.03
Cgdmin=86p Cgdmax=1.2n A=0.6 Cgs=6.51n Cjo=5.87n M=0.3 Is=65.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.9m Qg=89n)
.model BSC020N03LS VDMOS(Rg=1.9 Vto=2.77 Rd=1.06m Rs=336u Rb=696u Kp=600.3 Lambda=0.09
Cgdmin=86p Cgdmax=1.28n A=0.6 Cgs=5.32n Cjo=5.15n M=0.3 Is=46.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=2m Qg=34n)
.model BSC020N03MS VDMOS(Rg=1.9 Vto=2.52 Rd=1m Rs=336u Rb=676u Kp=654.7 Lambda=0.07
Cgdmin=122p Cgdmax=1.71n A=0.6 Cgs=7.04n Cjo=5.15n M=0.3 Is=42.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=2.5m Qg=45n)
.model BSC025N03LS VDMOS(Rg=1.6 Vto=2.77 Rd=1.32m Rs=271u Rb=721u Kp=476.8 Lambda=0.09
Cgdmin=68p Cgdmax=1.02n A=0.6 Cgs=4.23n Cjo=4.19n M=0.3 Is=36.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=2.5m Qg=27n)
.model BSC025N03MS VDMOS(Rg=1.6 Vto=2.52 Rd=1.24m Rs=271u Rb=701u Kp=520 Lambda=0.07
Cgdmin=97p Cgdmax=1.36n A=0.6 Cgs=5.59n Cjo=4.19n M=0.3 Is=34p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=3.0m Qg=36n)
.model BSC027N04LS VDMOS(Rg=1.6 Vto=2.89 Rd=1.52m Rs=271u Rb=641u Kp=476.8 Lambda=0.09
Cgdmin=68p Cgdmax=1.02n A=0.6 Cgs=5.01n Cjo=3.47n M=0.3 Is=36.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=2.7m Qg=31n)
.model BSC028N06LS3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.45m Rs=408u Rb=728u Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=2.8m Qg=59n)
.model BSC030N03LS VDMOS(Rg=1.5 Vto=2.77 Rd=1.74m Rs=254u Rb=854u Kp=356 Lambda=0.09
Cgdmin=51p Cgdmax=0.76n A=0.6 Cgs=3.16n Cjo=3.23n M=0.3 Is=27.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3m Qg=20n)
.model BSC030N03MS VDMOS(Rg=1.5 Vto=2.52 Rd=1.65m Rs=254u Rb=834u Kp=388.3 Lambda=0.07
Cgdmin=73p Cgdmax=1.02n A=0.6 Cgs=4.17n Cjo=3.23n M=0.3 Is=25.4p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=3.8m Qg=27n)
.model BSC030N04NS VDMOS(Rg=1.6 Vto=4.95 Rd=1.32m Rs=271u Rb=641u Kp=255.3 Lambda=0.03
Cgdmin=49p Cgdmax=0.68n A=0.6 Cgs=3.69n Cjo=3.47n M=0.3 Is=36.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=3m Qg=50n)
.model BSC031N06NS3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=408u Rb=948u Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.1m Qg=98n)
.model BSC034N03LS VDMOS(Rg=1.5 Vto=2.77 Rd=2.03m Rs=596u Rb=1.31m Kp=304.1 Lambda=0.09
Cgdmin=43p Cgdmax=0.65n A=0.6 Cgs=2.7n Cjo=2.81n M=0.3 Is=23.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.4m Qg=17n)
.model BSC035N04LS VDMOS(Rg=1.5 Vto=2.89 Rd=2.01m Rs=254u Rb=754u Kp=356 Lambda=0.09
Cgdmin=51p Cgdmax=0.76n A=0.6 Cgs=3.74n Cjo=2.65n M=0.3 Is=27.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=3.5m Qg=23n)
.model BSC042N03LS VDMOS(Rg=1.5 Vto=2.77 Rd=2.31m Rs=524u Rb=1.32m Kp=267.2 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.37n Cjo=2.51n M=0.3 Is=20.7p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.2m Qg=15n)

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.model BSC042N03MS VDMOS(Rg=1.5 Vto=2.52 Rd=2.18m Rs=571u Rb=1.34m Kp=291.5 Lambda=0.07
Cgdmin=54p Cgdmax=0.76n A=0.6 Cgs=3.13n Cjo=2.51n M=0.3 Is=19.1p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=5.4m Qg=20n)
.model BSC042NE7NS3 VDMOS(Rg=2.2 Vto=4.2 Rd=2.11m Rs=404u Rb=1.38m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=2.58n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=5.2m Qg=51n)
.model BSC047N08NS3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.4m Rs=404u Rb=1.38m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=4.7m Qg=51n)
.model BSC050N03LS VDMOS(Rg=1.4 Vto=2.77 Rd=2.77m Rs=473u Rb=1.44m Kp=221.7 Lambda=0.09
Cgdmin=32p Cgdmax=0.47n A=0.6 Cgs=1.97n Cjo=2.14n M=0.3 Is=17.2p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5m Qg=13n)
.model BSC050N03MS VDMOS(Rg=1.4 Vto=2.52 Rd=2.62m Rs=520u Rb=1.45m Kp=241.8 Lambda=0.07
Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=2.6n Cjo=2.14n M=0.3 Is=15.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=6.3m Qg=17n)
.model BSC050N04LS VDMOS(Rg=1.5 Vto=2.89 Rd=2.66m Rs=524u Rb=1.19m Kp=267.2 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.81n Cjo=2.05n M=0.3 Is=20.7p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=5.0m Qg=17n)
.model BSC054N04NS VDMOS(Rg=1.5 Vto=4.95 Rd=2.31m Rs=567u Rb=1.24m Kp=143.1 Lambda=0.03
Cgdmin=27p Cgdmax=0.38n A=0.6 Cgs=2.07n Cjo=2.05n M=0.3 Is=20.7p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=5.4m Qg=28n)
.model BSC057N03LS VDMOS(Rg=1.3 Vto=2.77 Rd=3.19m Rs=455u Rb=1.58m Kp=192.1 Lambda=0.09
Cgdmin=27p Cgdmax=0.41n A=0.6 Cgs=1.7n Cjo=1.89n M=0.3 Is=14.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.7m Qg=11n)
.model BSC057N03MS VDMOS(Rg=1.3 Vto=2.52 Rd=3.01m Rs=502u Rb=1.57m Kp=209.5 Lambda=0.07
Cgdmin=39p Cgdmax=0.55n A=0.6 Cgs=2.25n Cjo=1.89n M=0.3 Is=13.7p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=7.2m Qg=14n)
.model BSC057N08NS3 VDMOS(Rg=1.9 Vto=3.9 Rd=2.96m Rs=404u Rb=1.61m Kp=129.7 Lambda=0.03
Cgdmin=18p Cgdmax=0.92n A=0.2 Cgs=2.86n Cjo=2.57n M=0.27 Is=55.7p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.7m Qg=42n)
.model BSC059N04LS VDMOS(Rg=1.4 Vto=2.89 Rd=3.2m Rs=473u Rb=1.28m Kp=221.7 Lambda=0.09
Cgdmin=32p Cgdmax=0.47n A=0.6 Cgs=2.33n Cjo=1.73n M=0.3 Is=17.2p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=5.9m Qg=14n)
.model BSC060N10NS3 VDMOS(Rg=1.6 Vto=3.63 Rd=3.91m Rs=404u Rb=1.1m Kp=155.8 Lambda=0.03
Cgdmin=18p Cgdmax=0.96n A=0.2 Cgs=3.67n Cjo=2.9n M=0.3 Is=172.1p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=6m Qg=51n)
.model BSC067N06LS3 VDMOS(Rg=1 Vto=2.5 Rd=3.72m Rs=634u Rb=1.48m Kp=132.8 Lambda=0.01
Cgdmin=11p Cgdmax=1.24n A=2.5 Cgs=3.8n Cjo=2.24n M=0.3 Is=6p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=6.7m Qg=23n)
.model BSC072N03LD VDMOS(Rg=1.5 Vto=2.77 Rd=2.32m Rs=3.33m Rb=4.14m Kp=265.6
Lambda=0.09 Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1
TT=3n mfg=Infineon Vds=30 Ron=7.2m Qg=15n)
.model BSC076N06NS3 VDMOS(Rg=1 Vto=4.35 Rd=3.72m Rs=634u Rb=2.04m Kp=99.1 Lambda=0.01
Cgdmin=7p Cgdmax=0.78n A=2.5 Cgs=3.01n Cjo=2.24n M=0.3 Is=6p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=7.6m Qg=37n)
.model BSC080N03LS VDMOS(Rg=1 Vto=2.77 Rd=4.61m Rs=414u Rb=2.03m Kp=132.4 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.17n Cjo=1.38n M=0.3 Is=10.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=8m Qg=8n)
.model BSC080N03MS VDMOS(Rg=1 Vto=2.52 Rd=4.35m Rs=461u Rb=2.02m Kp=144.5 Lambda=0.07
Cgdmin=27p Cgdmax=0.38n A=0.6 Cgs=1.55n Cjo=1.38n M=0.3 Is=9.5p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=10.2m Qg=10n)
.model BSC090N03LS VDMOS(Rg=1 Vto=2.77 Rd=5.13m Rs=407u Rb=2.22m Kp=118.7 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.05n Cjo=1.26n M=0.3 Is=9.2p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9m Qg=7n)
.model BSC090N03MS VDMOS(Rg=1 Vto=2.52 Rd=4.84m Rs=454u Rb=2.19m Kp=129.5 Lambda=0.07
Cgdmin=24p Cgdmax=0.34n A=0.6 Cgs=1.39n Cjo=1.26n M=0.3 Is=8.5p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=11.2m Qg=9n)

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.model BSC093N04LS VDMOS(Rg=1 Vto=2.89 Rd=5.32m Rs=461u Rb=1.81m Kp=132.4 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.39n Cjo=1.1n M=0.3 Is=10.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=9.3m Qg=9n)
.model BSC100N03LS VDMOS(Rg=0.9 Vto=2.77 Rd=5.49m Rs=402u Rb=2.34m Kp=110.9 Lambda=0.09
Cgdmin=16p Cgdmax=0.24n A=0.6 Cgs=0.98n Cjo=1.19n M=0.3 Is=8.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10m Qg=6n)
.model BSC100N03MS VDMOS(Rg=0.9 Vto=2.52 Rd=5.18m Rs=449u Rb=2.31m Kp=120.9 Lambda=0.07
Cgdmin=23p Cgdmax=0.32n A=0.6 Cgs=1.3n Cjo=1.19n M=0.3 Is=7.9p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=12m Qg=8n)
.model BSC100N06LS3 VDMOS(Rg=1.3 Vto=2.5 Rd=5.61m Rs=546u Rb=1.83m Kp=87.8 Lambda=0.01
Cgdmin=7p Cgdmax=0.82n A=2.5 Cgs=2.53n Cjo=1.55n M=0.3 Is=4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=10m Qg=15n)
.model BSC110N06NS3 VDMOS(Rg=1.3 Vto=4.35 Rd=5.61m Rs=546u Rb=2.69m Kp=65.5 Lambda=0.01
Cgdmin=5p Cgdmax=0.51n A=2.5 Cgs=1.99n Cjo=1.55n M=0.3 Is=4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=11m Qg=25n)
.model BSC120N03LS VDMOS(Rg=0.9 Vto=2.77 Rd=6.33m Rs=414u Rb=2.65m Kp=96 Lambda=0.09
Cgdmin=14p Cgdmax=0.21n A=0.6 Cgs=0.85n Cjo=1.06n M=0.3 Is=7.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=12m Qg=5n)
.model BSC120N03MS VDMOS(Rg=0.9 Vto=2.52 Rd=5.97m Rs=414u Rb=2.56m Kp=104.8 Lambda=0.07
Cgdmin=20p Cgdmax=0.27n A=0.6 Cgs=1.13n Cjo=1.06n M=0.3 Is=6.9p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=14m Qg=7n)
.model BSC123N08NS3 VDMOS(Rg=2 Vto=3.9 Rd=6.5m Rs=603u Rb=3.3m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=12.3m Qg=19n)
.model BSC150N03LD VDMOS(Rg=1.2 Vto=2.77 Rd=7.16m Rs=3.25m Rb=5.78m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=15m Qg=5n)
.model BSC160N10NS3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.66m Rs=603u Rb=2.51m Kp=56.8
Lambda=0.03 Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19
TT=60n mfg=Infineon Vds=100 Ron=16m Qg=19n)
.model BSC340N08NS3 VDMOS(Rg=1.1 Vto=3.9 Rd=18.1m Rs=364u Rb=7.9m Kp=20.9 Lambda=0.03
Cgdmin=3p Cgdmax=0.15n A=0.2 Cgs=0.46n Cjo=0.41n M=0.27 Is=9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=34m Qg=7n)
.model BSC440N10NS3 VDMOS(Rg=0.8 Vto=3.63 Rd=29.71m Rs=364u Rb=5.7m Kp=20.3 Lambda=0.03
Cgdmin=2p Cgdmax=0.13n A=0.2 Cgs=0.6n Cjo=0.49n M=0.3 Is=22.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=44m Qg=8n)
.model BSF024N03LT3 VDMOS(Rg=0.5 Vto=2.77 Rd=1.51m Rs=300u Rb=820u Kp=415 Lambda=0.09
Cgdmin=59p Cgdmax=0.89n A=0.6 Cgs=3.68n Cjo=3.7n M=0.3 Is=32.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=2.4m Qg=24n)
.model BSF024N03MT3 VDMOS(Rg=0.5 Vto=2.52 Rd=1.43m Rs=300u Rb=800u Kp=452.6 Lambda=0.07
Cgdmin=85p Cgdmax=1.18n A=0.6 Cgs=4.86n Cjo=3.7n M=0.3 Is=29.6p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=2.4m Qg=31n)
.model BSF045N03LQ3 VDMOS(Rg=1.4 Vto=2.77 Rd=2.81m Rs=348u Rb=1.33m Kp=219.7
Lambda=0.09 Cgdmin=31p Cgdmax=0.47n A=0.6 Cgs=1.95n Cjo=2.12n M=0.3 Is=17p VJ=0.9 N=1.1
TT=3n mfg=Infineon Vds=30 Ron=4.5m Qg=13n)
.model BSF045N03MQ3 VDMOS(Rg=1.4 Vto=2.52 Rd=2.65m Rs=348u Rb=1.29m Kp=239.7
Lambda=0.07 Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=2.58n Cjo=2.12n M=0.3 Is=15.7p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=4.5m Qg=17n)
.model BSF050N03LQ3 VDMOS(Rg=0.4 Vto=2.77 Rd=3.19m Rs=258u Rb=1.38m Kp=192.7
Lambda=0.09 Cgdmin=27p Cgdmax=0.41n A=0.6 Cgs=1.71n Cjo=1.9n M=0.3 Is=14.9p VJ=0.9 N=1.1
TT=3n mfg=Infineon Vds=30 Ron=5m Qg=11n)
.model BSF050N03MQ3 VDMOS(Rg=0.5 Vto=2.52 Rd=3.01m Rs=258u Rb=1.33m Kp=210.1
Lambda=0.07 Cgdmin=39p Cgdmax=0.55n A=0.6 Cgs=2.26n Cjo=1.9n M=0.3 Is=13.7p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=5m Qg=15n)
.model BSF885N03LQ3 VDMOS(Rg=0.4 Vto=2.77 Rd=3.19m Rs=258u Rb=1.38m Kp=192.7
Lambda=0.09 Cgdmin=27p Cgdmax=0.41n A=0.6 Cgs=1.71n Cjo=1.9n M=0.3 Is=14.9p VJ=0.9 N=1.1
TT=3n mfg=Infineon Vds=30 Ron=5m Qg=11n)

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.model BSO033N03MS VDMOS(Rg=1.9 Vto=2.52 Rd=1.19m Rs=1.31m Rb=1.65m Kp=654.8
Lambda=0.07 Cgdmin=122p Cgdmax=1.71n A=0.6 Cgs=7.04n Cjo=5.15n M=0.3 Is=42.8p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=3.8m Qg=45n)
.model BSO040N03MS VDMOS(Rg=1.5 Vto=2.52 Rd=1.89m Rs=1.21m Rb=1.79m Kp=388.3
Lambda=0.07 Cgdmin=73p Cgdmax=1.02n A=0.6 Cgs=4.17n Cjo=3.23n M=0.3 Is=25.4p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=4.9m Qg=27n)
.model BSO051N03MS VDMOS(Rg=1.5 Vto=2.52 Rd=2.45m Rs=1.43m Rb=2.2m Kp=291.5 Lambda=0.07
Cgdmin=54p Cgdmax=0.76n A=0.6 Cgs=3.13n Cjo=2.51n M=0.3 Is=19.1p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=6.2m Qg=20n)
.model BSO065N03MS VDMOS(Rg=1.3 Vto=2.52 Rd=3.34m Rs=1.44m Rb=2.51m Kp=209.5
Lambda=0.07 Cgdmin=39p Cgdmax=0.55n A=0.6 Cgs=2.25n Cjo=1.89n M=0.3 Is=13.7p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=8m Qg=14n)
.model BSO070N08NS3 VDMOS(Rg=1.9 Vto=3.9 Rd=3.12m Rs=1.24m Rb=2.45m Kp=129.7
Lambda=0.03 Cgdmin=18p Cgdmax=0.92n A=0.2 Cgs=2.86n Cjo=2.57n M=0.27 Is=55.7p VJ=0.9 N=1.16
TT=40n mfg=Infineon Vds=80 Ron=7m Qg=42n)
.model BSO083N03MS VDMOS(Rg=1 Vto=2.52 Rd=4.77m Rs=1.3m Rb=2.86m Kp=144.5 Lambda=0.07
Cgdmin=27p Cgdmax=0.38n A=0.6 Cgs=1.55n Cjo=1.38n M=0.3 Is=9.5p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=10.5m Qg=10n)
.model BSO110N03MS VDMOS(Rg=0.9 Vto=2.52 Rd=6.51m Rs=1.46m Rb=3.61m Kp=104.8
Lambda=0.07 Cgdmin=20p Cgdmax=0.27n A=0.6 Cgs=1.13n Cjo=1.06n M=0.3 Is=6.9p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=13.9m Qg=7n)
.model BSO130N03MS VDMOS(Rg=1.1 Vto=2.52 Rd=7.69m Rs=2.09m Rb=4.64m Kp=88.3 Lambda=0.07
Cgdmin=17p Cgdmax=0.23n A=0.6 Cgs=0.95n Cjo=0.92n M=0.3 Is=5.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=16.6m Qg=6n)
.model BSO140N08NS3 VDMOS(Rg=2 Vto=3.9 Rd=6.7m Rs=1.73m Rb=4.43m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=14m Qg=19n)
.model BSO150N03MD VDMOS(Rg=1.1 Vto=2.52 Rd=7.87m Rs=3.52m Rb=6.07m Kp=88.3 Lambda=0.07
Cgdmin=17p Cgdmax=0.23n A=0.6 Cgs=0.95n Cjo=0.92n M=0.3 Is=5.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=18.2m Qg=6n)
.model BSO180N10NS3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.86m Rs=1.73m Rb=3.64m Kp=56.8
Lambda=0.03 Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19
TT=60n mfg=Infineon Vds=100 Ron=18m Qg=19n)
.model BSO220N03MD VDMOS(Rg=1.3 Vto=2.52 Rd=12.27m Rs=3.06m Rb=7.14m Kp=55.1
Lambda=0.07 Cgdmin=10p Cgdmax=0.14n A=0.6 Cgs=0.59n Cjo=0.64n M=0.3 Is=3.6p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=27m Qg=4n)
.model BSO220N03MS VDMOS(Rg=1.3 Vto=2.52 Rd=12.22m Rs=2.73m Rb=6.81m Kp=55.1
Lambda=0.07 Cgdmin=10p Cgdmax=0.14n A=0.6 Cgs=0.59n Cjo=0.64n M=0.3 Is=3.6p VJ=0.9 N=1.11
TT=3n mfg=Infineon Vds=30 Ron=27m Qg=4n)
.model BSO350N08NS3 VDMOS(Rg=1.1 Vto=3.9 Rd=18.43m Rs=1.9m Rb=9.44m Kp=20.9 Lambda=0.03
Cgdmin=3p Cgdmax=0.15n A=0.2 Cgs=0.46n Cjo=0.41n M=0.27 Is=9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=35m Qg=7n)
.model BSO440N10NS3 VDMOS(Rg=0.8 Vto=3.63 Rd=30.04m Rs=1.9m Rb=7.24m Kp=20.3
Lambda=0.03 Cgdmin=2p Cgdmax=0.13n A=0.2 Cgs=0.6n Cjo=0.49n M=0.3 Is=22.4p VJ=0.9 N=1.19
TT=60n mfg=Infineon Vds=100 Ron=44m Qg=8n)
.model BSZ035N03LS VDMOS(Rg=1.8 Vto=2.77 Rd=1.73m Rs=586u Rb=1.19m Kp=359.9 Lambda=0.09
Cgdmin=51p Cgdmax=0.77n A=0.6 Cgs=3.19n Cjo=3.26n M=0.3 Is=27.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.5m Qg=20n)
.model BSZ035N03MS VDMOS(Rg=1.8 Vto=2.52 Rd=1.63m Rs=586u Rb=1.16m Kp=392.6 Lambda=0.07
Cgdmin=73p Cgdmax=1.03n A=0.6 Cgs=4.22n Cjo=3.26n M=0.3 Is=25.7p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=4.3m Qg=27n)
.model BSZ040N04LS VDMOS(Rg=1.8 Vto=2.89 Rd=1.99m Rs=586u Rb=1.09m Kp=359.9 Lambda=0.09
Cgdmin=51p Cgdmax=0.77n A=0.6 Cgs=3.78n Cjo=2.68n M=0.3 Is=27.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=4.0m Qg=24n)
.model BSZ042N04NS VDMOS(Rg=1.8 Vto=4.95 Rd=1.73m Rs=586u Rb=1.09m Kp=192.7 Lambda=0.03
Cgdmin=37p Cgdmax=0.51n A=0.6 Cgs=2.79n Cjo=2.68n M=0.3 Is=27.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=4.2m Qg=38n)

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.model BSZ050N03LS VDMOS(Rg=1.4 Vto=2.77 Rd=2.77m Rs=452u Rb=1.42m Kp=221.7 Lambda=0.09
Cgdmin=32p Cgdmax=0.47n A=0.6 Cgs=1.97n Cjo=2.14n M=0.3 Is=17.2p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.0m Qg=13n)
.model BSZ050N03MS VDMOS(Rg=1.4 Vto=2.52 Rd=2.62m Rs=452u Rb=1.38m Kp=241.8 Lambda=0.07
Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=2.6n Cjo=2.14n M=0.3 Is=15.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=6.4m Qg=17n)
.model BSZ058N03LS VDMOS(Rg=1.3 Vto=2.77 Rd=3.19m Rs=415u Rb=1.54m Kp=192.1 Lambda=0.09
Cgdmin=27p Cgdmax=0.41n A=0.6 Cgs=1.7n Cjo=1.89n M=0.3 Is=14.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.8m Qg=11n)
.model BSZ058N03MS VDMOS(Rg=1.3 Vto=2.52 Rd=3.01m Rs=415u Rb=1.49m Kp=209.5 Lambda=0.07
Cgdmin=39p Cgdmax=0.55n A=0.6 Cgs=2.25n Cjo=1.89n M=0.3 Is=13.7p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=7.2m Qg=14n)
.model BSZ067N06LS3 VDMOS(Rg=1 Vto=2.5 Rd=3.72m Rs=586u Rb=1.44m Kp=132.8 Lambda=0.01
Cgdmin=11p Cgdmax=1.24n A=2.5 Cgs=3.8n Cjo=2.24n M=0.3 Is=6p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=6.7m Qg=23n)
.model BSZ076N06NS3 VDMOS(Rg=1 Vto=4.35 Rd=3.72m Rs=586u Rb=2m Kp=99.1 Lambda=0.01
Cgdmin=7p Cgdmax=0.78n A=2.5 Cgs=3.01n Cjo=2.24n M=0.3 Is=6p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=7.6m Qg=37n)
.model BSZ088N03LS VDMOS(Rg=1 Vto=2.77 Rd=4.61m Rs=865u Rb=2.49m Kp=132.4 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.17n Cjo=1.38n M=0.3 Is=10.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=8.8m Qg=8n)
.model BSZ088N03MS VDMOS(Rg=1 Vto=2.52 Rd=4.35m Rs=865u Rb=2.42m Kp=144.5 Lambda=0.07
Cgdmin=27p Cgdmax=0.38n A=0.6 Cgs=1.55n Cjo=1.38n M=0.3 Is=9.5p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=11m Qg=10n)
.model BSZ097N04LS VDMOS(Rg=1 Vto=2.89 Rd=5.32m Rs=865u Rb=2.22m Kp=132.4 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.39n Cjo=1.1n M=0.3 Is=10.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=9.7m Qg=9n)
.model BSZ100N03LS VDMOS(Rg=0.9 Vto=2.77 Rd=5.49m Rs=865u Rb=2.81m Kp=110.9 Lambda=0.09
Cgdmin=16p Cgdmax=0.24n A=0.6 Cgs=0.98n Cjo=1.19n M=0.3 Is=8.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10m Qg=6n)
.model BSZ100N03MS VDMOS(Rg=0.9 Vto=2.52 Rd=5.18m Rs=865u Rb=2.73m Kp=120.9 Lambda=0.07
Cgdmin=23p Cgdmax=0.32n A=0.6 Cgs=1.3n Cjo=1.19n M=0.3 Is=7.9p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=13m Qg=8n)
.model BSZ100N06LS3 VDMOS(Rg=1.3 Vto=2.5 Rd=5.61m Rs=498u Rb=1.78m Kp=87.8 Lambda=0.01
Cgdmin=7p Cgdmax=0.82n A=2.5 Cgs=2.53n Cjo=1.55n M=0.3 Is=4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=10m Qg=15n)
.model BSZ105N04NS VDMOS(Rg=1 Vto=4.95 Rd=4.61m Rs=865u Rb=2.22m Kp=70.9 Lambda=0.03
Cgdmin=14p Cgdmax=0.19n A=0.6 Cgs=1.03n Cjo=1.1n M=0.3 Is=10.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=10.5m Qg=14n)
.model BSZ110N06NS3 VDMOS(Rg=1.3 Vto=4.35 Rd=5.61m Rs=498u Rb=2.64m Kp=65.5 Lambda=0.01
Cgdmin=5p Cgdmax=0.51n A=2.5 Cgs=1.99n Cjo=1.55n M=0.3 Is=4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=11m Qg=25n)
.model BSZ123N08NS3 VDMOS(Rg=2 Vto=3.9 Rd=6.5m Rs=577u Rb=3.28m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=12.3m Qg=19n)
.model BSZ130N03LS VDMOS(Rg=1.1 Vto=2.77 Rd=7.5m Rs=935u Rb=3.59m Kp=80.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.17n A=0.6 Cgs=0.72n Cjo=0.92n M=0.3 Is=6.3p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=13m Qg=5n)
.model BSZ130N03MS VDMOS(Rg=1.1 Vto=2.52 Rd=7.08m Rs=935u Rb=3.49m Kp=88.3 Lambda=0.07
Cgdmin=17p Cgdmax=0.23n A=0.6 Cgs=0.95n Cjo=0.92n M=0.3 Is=5.8p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=17m Qg=6n)
.model BSZ160N10NS3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.66m Rs=577u Rb=2.49m Kp=56.8
Lambda=0.03 Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19
TT=60n mfg=Infineon Vds=100 Ron=16m Qg=19n)
.model BSZ165N04NS VDMOS(Rg=1.1 Vto=4.95 Rd=7.5m Rs=935u Rb=3.15m Kp=43.3 Lambda=0.03
Cgdmin=8p Cgdmax=0.12n A=0.6 Cgs=0.63n Cjo=0.72n M=0.3 Is=6.3p VJ=0.9 N=1.1 TT=3n mfg=Infineon
Vds=40 Ron=16.5m Qg=9n)

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.model BSZ340N08NS3 VDMOS(Rg=1.1 Vto=3.9 Rd=18.1m Rs=1.06m Rb=8.6m Kp=20.9 Lambda=0.03
Cgdmin=3p Cgdmax=0.15n A=0.2 Cgs=0.46n Cjo=0.41n M=0.27 Is=9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=34m Qg=7n)
.model BSZ440N10NS3 VDMOS(Rg=0.8 Vto=3.63 Rd=29.71m Rs=1.06m Rb=6.4m Kp=20.3
Lambda=0.03 Cgdmin=2p Cgdmax=0.13n A=0.2 Cgs=0.6n Cjo=0.49n M=0.3 Is=22.4p VJ=0.9 N=1.19
TT=60n mfg=Infineon Vds=100 Ron=44m Qg=8n)
.model IPA028N08N3 VDMOS(Rg=2.7 Vto=3.9 Rd=1.13m Rs=873u Rb=1.2m Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=9.55n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=2.8m Qg=155n)
.model IPA030N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=1.63m Rs=657u Rb=887u Kp=469.2 Lambda=0.03
Cgdmin=55p Cgdmax=2.89n A=0.2 Cgs=11.05n Cjo=8.73n M=0.3 Is=518.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=3m Qg=155n)
.model IPA032N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=601u Rb=1.02m Kp=330.1 Lambda=0.01
Cgdmin=24p Cgdmax=2.59n A=2.5 Cgs=10.02n Cjo=6.75n M=0.3 Is=20p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.2m Qg=124n)
.model IPA037N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=1.72m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=5.43n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=3.75m Qg=88n)
.model IPA045N10N3 VDMOS(Rg=1.4 Vto=3.63 Rd=2.61m Rs=748u Rb=1.16m Kp=266.6 Lambda=0.03
Cgdmin=31p Cgdmax=1.64n A=0.2 Cgs=6.28n Cjo=4.96n M=0.3 Is=294.5p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=4.5m Qg=88n)
.model IPA057N06N3 VDMOS(Rg=1.2 Vto=4.35 Rd=2.58m Rs=953u Rb=1.81m Kp=163.2 Lambda=0.01
Cgdmin=12p Cgdmax=1.28n A=2.5 Cgs=4.96n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=5.7m Qg=61n)
.model IPA057N08N3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.7m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.7m Qg=51n)
.model IPA086N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=5.12m Rs=1.15m Rb=2.01m Kp=126.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.78n A=0.2 Cgs=2.97n Cjo=2.35n M=0.3 Is=139.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=8.6m Qg=42n)
.model IPA093N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=4.18m Rs=1.72m Rb=3.19m Kp=94.9 Lambda=0.01
Cgdmin=7p Cgdmax=0.75n A=2.5 Cgs=2.88n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=9.3m Qg=36n)
.model IPA100N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.98m Rs=947u Rb=2.88m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=10m Qg=26n)
.model IPA126N10N3 VDMOS(Rg=1.1 Vto=3.63 Rd=7.96m Rs=947u Rb=2.32m Kp=79.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.49n A=0.2 Cgs=1.86n Cjo=1.47n M=0.3 Is=87.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=12.6m Qg=26n)
.model IPA180N10N3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.96m Rs=1.74m Rb=3.65m Kp=56.8 Lambda=0.03
Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=18m Qg=19n)
.model IPB009N03L VDMOS(Rg=1.5 Vto=2.77 Rd=330u Rs=327u Rb=437u Kp=1941.4 Lambda=0.09
Cgdmin=277p Cgdmax=4.16n A=0.6 Cgs=17.22n Cjo=15.24n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=0.95m Qg=111n)
.model IPB011N04L VDMOS(Rg=1.5 Vto=2.89 Rd=380u Rs=327u Rb=417u Kp=1941.4 Lambda=0.09
Cgdmin=277p Cgdmax=4.16n A=0.6 Cgs=20.38n Cjo=12.99n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.1m Qg=127n)
.model IPB011N04N VDMOS(Rg=1.5 Vto=4.95 Rd=330u Rs=327u Rb=417u Kp=1039.6 Lambda=0.03
Cgdmin=198p Cgdmax=2.77n A=0.6 Cgs=15.04n Cjo=12.99n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.1m Qg=205n)
.model IPB015N04L VDMOS(Rg=1.5 Vto=2.89 Rd=410u Rs=591u Rb=681u Kp=1941.4 Lambda=0.09
Cgdmin=277p Cgdmax=4.16n A=0.6 Cgs=20.38n Cjo=12.99n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.5m Qg=127n)
.model IPB015N04N VDMOS(Rg=1.5 Vto=4.95 Rd=360u Rs=591u Rb=681u Kp=1039.6 Lambda=0.03
Cgdmin=198p Cgdmax=2.77n A=0.6 Cgs=15.04n Cjo=12.99n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.5m Qg=205n)

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.model IPB016N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=680u Rs=327u Rb=477u Kp=735.8 Lambda=0.01
Cgdmin=59p Cgdmax=6.87n A=2.5 Cgs=20.85n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=1.6m Qg=125n)
.model IPB017N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=680u Rs=327u Rb=577u Kp=549.4 Lambda=0.01
Cgdmin=39p Cgdmax=4.32n A=2.5 Cgs=16.68n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=1.7m Qg=206n)
.model IPB019N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=710u Rs=717u Rb=867u Kp=735.8 Lambda=0.01
Cgdmin=59p Cgdmax=6.87n A=2.5 Cgs=20.85n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=1.9m Qg=125n)
.model IPB019N08N3 VDMOS(Rg=2.7 Vto=3.9 Rd=800u Rs=393u Rb=723u Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=9.55n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=1.9m Qg=155n)
.model IPB020N04N VDMOS(Rg=1.6 Vto=4.95 Rd=670u Rs=595u Rb=785u Kp=498.5 Lambda=0.03
Cgdmin=95p Cgdmax=1.33n A=0.6 Cgs=7.21n Cjo=6.46n M=0.3 Is=72.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=2.0m Qg=98n)
.model IPB020NE7N3 VDMOS(Rg=2.7 Vto=4.2 Rd=740u Rs=657u Rb=987u Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=7.77n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=2.0m Qg=155n)
.model IPB021N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=710u Rs=717u Rb=967u Kp=549.4 Lambda=0.01
Cgdmin=39p Cgdmax=4.32n A=2.5 Cgs=16.68n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=2.1m Qg=206n)
.model IPB022N04L VDMOS(Rg=1.6 Vto=2.89 Rd=800u Rs=845u Rb=1.03m Kp=931 Lambda=0.09
Cgdmin=133p Cgdmax=1.99n A=0.6 Cgs=9.77n Cjo=6.46n M=0.3 Is=72.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=2.2m Qg=61n)
.model IPB023N04N VDMOS(Rg=1.6 Vto=4.95 Rd=700u Rs=845u Rb=1.03m Kp=498.5 Lambda=0.03
Cgdmin=95p Cgdmax=1.33n A=0.6 Cgs=7.21n Cjo=6.46n M=0.3 Is=72.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=2.3m Qg=98n)
.model IPB023N06N3 VDMOS(Rg=1.4 Vto=4.35 Rd=940u Rs=465u Rb=815u Kp=395.4 Lambda=0.01
Cgdmin=28p Cgdmax=3.11n A=2.5 Cgs=12n Cjo=8n M=0.3 Is=24p VJ=0.9 N=1.06 TT=30n mfg=Infineon
Vds=60 Ron=2.3m Qg=148n)
.model IPB025N08N3 VDMOS(Rg=2.7 Vto=3.9 Rd=830u Rs=743u Rb=1.07m Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=9.55n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=2.5m Qg=155n)
.model IPB025N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=1.3m Rs=393u Rb=623u Kp=469.2 Lambda=0.03
Cgdmin=55p Cgdmax=2.89n A=0.2 Cgs=11.05n Cjo=8.73n M=0.3 Is=518.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=2.5m Qg=155n)
.model IPB027N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=1.33m Rs=657u Rb=887u Kp=469.2 Lambda=0.03
Cgdmin=55p Cgdmax=2.89n A=0.2 Cgs=11.05n Cjo=8.73n M=0.3 Is=518.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=2.7m Qg=155n)
.model IPB029N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.15m Rs=601u Rb=1.02m Kp=330.1 Lambda=0.01
Cgdmin=24p Cgdmax=2.59n A=2.5 Cgs=10.02n Cjo=6.75n M=0.3 Is=20p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=2.9m Qg=124n)
.model IPB030N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=1.39m Rs=445u Rb=1.01m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=5.43n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=3m Qg=88n)
.model IPB031NE7N3 VDMOS(Rg=1.9 Vto=4.2 Rd=1.26m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=4.42n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=3.1m Qg=88n)
.model IPB034N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.43m Rs=941u Rb=1.43m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.4m Qg=25n)
.model IPB034N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.45m Rs=833u Rb=1.15m Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.4m Qg=59n)
.model IPB034N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.42m Rs=560u Rb=1.1m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.4m Qg=98n)

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.model IPB035N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=1.42m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=5.43n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=3.5m Qg=88n)
.model IPB037N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=833u Rb=1.37m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.7m Qg=98n)
.model IPB039N04L VDMOS(Rg=1.6 Vto=2.89 Rd=1.64m Rs=941u Rb=1.35m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=4.6n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=3.9m Qg=29n)
.model IPB039N10N3 VDMOS(Rg=1.4 Vto=3.63 Rd=2.28m Rs=445u Rb=855u Kp=266.6 Lambda=0.03
Cgdmin=31p Cgdmax=1.64n A=0.2 Cgs=6.28n Cjo=4.96n M=0.3 Is=294.5p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=3.9m Qg=88n)
.model IPB041N04N VDMOS(Rg=1.6 Vto=4.95 Rd=1.43m Rs=941u Rb=1.35m Kp=234.6 Lambda=0.03
Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=3.39n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=4.1m Qg=46n)
.model IPB042N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.92m Rs=1.01m Rb=1.68m Kp=322.1 Lambda=0.09
Cgdmin=46p Cgdmax=0.69n A=0.6 Cgs=2.86n Cjo=2.96n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.2m Qg=18n)
.model IPB042N10N3 VDMOS(Rg=1.4 Vto=3.63 Rd=2.31m Rs=748u Rb=1.16m Kp=266.6 Lambda=0.03
Cgdmin=31p Cgdmax=1.64n A=0.2 Cgs=6.28n Cjo=4.96n M=0.3 Is=294.5p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=4.2m Qg=88n)
.model IPB049N06L3 VDMOS(Rg=1.2 Vto=2.5 Rd=2.28m Rs=953u Rb=1.46m Kp=218.6 Lambda=0.01
Cgdmin=17p Cgdmax=2.04n A=2.5 Cgs=6.23n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=4.9m Qg=37n)
.model IPB049NE7N3 VDMOS(Rg=2.2 Vto=4.2 Rd=2.11m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=2.58n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=4.9m Qg=51n)
.model IPB052N04N VDMOS(Rg=1.6 Vto=4.95 Rd=1.92m Rs=1.01m Rb=1.56m Kp=172.5 Lambda=0.03
Cgdmin=33p Cgdmax=0.46n A=0.6 Cgs=2.5n Cjo=2.42n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n mfg=Infineon
Vds=40 Ron=5.2m Qg=34n)
.model IPB054N06N3 VDMOS(Rg=1.2 Vto=4.35 Rd=2.28m Rs=953u Rb=1.81m Kp=163.2 Lambda=0.01
Cgdmin=12p Cgdmax=1.28n A=2.5 Cgs=4.96n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=5.4m Qg=61n)
.model IPB054N08N3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.4m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.4m Qg=51n)
.model IPB055N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.32m Rs=1.67m Rb=2.48m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.5m Qg=15n)
.model IPB065N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.07m Rs=1.52m Rb=2.6m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6.5m Qg=11n)
.model IPB067N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=2.96m Rs=879u Rb=2.09m Kp=129.7 Lambda=0.03
Cgdmin=18p Cgdmax=0.92n A=0.2 Cgs=2.86n Cjo=2.57n M=0.27 Is=55.7p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=6.7m Qg=42n)
.model IPB075N04L VDMOS(Rg=1.4 Vto=2.89 Rd=3.55m Rs=1.52m Rb=2.41m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=2.1n Cjo=1.58n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=7.5m Qg=13n)
.model IPB080N03L VDMOS(Rg=1.3 Vto=2.77 Rd=3.95m Rs=1.56m Rb=2.95m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=8m Qg=9n)
.model IPB081N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=3.88m Rs=1.72m Rb=2.6m Kp=127.1 Lambda=0.01
Cgdmin=10p Cgdmax=1.19n A=2.5 Cgs=3.64n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=8.1m Qg=22n)
.model IPB083N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=4.82m Rs=1.15m Rb=2.01m Kp=126.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.78n A=0.2 Cgs=2.97n Cjo=2.35n M=0.3 Is=139.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=8.3m Qg=42n)

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.model IPB090N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=3.88m Rs=1.72m Rb=3.19m Kp=94.9 Lambda=0.01
Cgdmin=7p Cgdmax=0.75n A=2.5 Cgs=2.88n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=9m Qg=36n)
.model IPB093N04L VDMOS(Rg=1.3 Vto=2.89 Rd=4.57m Rs=1.56m Rb=2.72m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.62n Cjo=1.26n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=9.3m Qg=10n)
.model IPB096N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.67m Rs=2.16m Rb=3.81m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9.6m Qg=7n)
.model IPB097N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.68m Rs=947u Rb=2.88m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=9.7m Qg=26n)
.model IPB114N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.21m Rs=2.74m Rb=4.58m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=11.4m Qg=7n)
.model IPB123N10N3 VDMOS(Rg=1.1 Vto=3.63 Rd=7.66m Rs=947u Rb=2.32m Kp=79.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.49n A=0.2 Cgs=1.86n Cjo=1.47n M=0.3 Is=87.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=12.3m Qg=26n)
.model IPB136N08N3 VDMOS(Rg=2 Vto=3.9 Rd=6.5m Rs=1.74m Rb=4.44m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=13.6m Qg=19n)
.model IPB147N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.16m Rs=3.53m Rb=6.06m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=14.7m Qg=5n)
.model IPB230N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=12.2m Rs=2.9m Rb=5.7m Kp=40.1 Lambda=0.01
Cgdmin=3p Cgdmax=0.37n A=2.5 Cgs=1.18n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=23m Qg=7n)
.model IPB260N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=12.2m Rs=2.9m Rb=7.57m Kp=30 Lambda=0.01
Cgdmin=2p Cgdmax=0.24n A=2.5 Cgs=0.91n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=26m Qg=11n)
.model IPD031N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.43m Rs=723u Rb=1.21m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.1m Qg=25n)
.model IPD031N03M VDMOS(Rg=1.6 Vto=2.52 Rd=1.35m Rs=723u Rb=1.19m Kp=477.9 Lambda=0.07
Cgdmin=89p Cgdmax=1.25n A=0.6 Cgs=5.14n Cjo=3.88n M=0.3 Is=31.3p VJ=0.9 N=1.11 TT=3n
mfg=Infineon Vds=30 Ron=3.8m Qg=33n)
.model IPD031N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.45m Rs=659u Rb=979u Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.1m Qg=59n)
.model IPD034N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=659u Rb=1.2m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.4m Qg=98n)
.model IPD035N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.45m Rs=889u Rb=1.21m Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.5m Qg=59n)
.model IPD036N04L VDMOS(Rg=1.6 Vto=2.89 Rd=1.64m Rs=723u Rb=1.13m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=4.6n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=3.6m Qg=29n)
.model IPD038N04N VDMOS(Rg=1.6 Vto=4.95 Rd=1.43m Rs=723u Rb=1.13m Kp=234.6 Lambda=0.03
Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=3.39n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=3.8m Qg=46n)
.model IPD038N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=1m Rb=1.54m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.8m Qg=98n)
.model IPD040N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.92m Rs=745u Rb=1.42m Kp=322.1 Lambda=0.09
Cgdmin=46p Cgdmax=0.69n A=0.6 Cgs=2.86n Cjo=2.96n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4m Qg=18n)

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.model IPD048N06L3 VDMOS(Rg=1.2 Vto=2.5 Rd=2.28m Rs=772u Rb=1.28m Kp=218.6 Lambda=0.01
Cgdmin=17p Cgdmax=2.04n A=2.5 Cgs=6.23n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=4.8m Qg=37n)
.model IPD050N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.32m Rs=1.25m Rb=2.06m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5m Qg=15n)
.model IPD053N06N3 VDMOS(Rg=1.2 Vto=4.35 Rd=2.28m Rs=772u Rb=1.63m Kp=163.2 Lambda=0.01
Cgdmin=12p Cgdmax=1.28n A=2.5 Cgs=4.96n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=5.3m Qg=61n)
.model IPD053N08N3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.4m Rs=824u Rb=1.8m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.3m Qg=51n)
.model IPD060N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.07m Rs=1.11m Rb=2.19m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6m Qg=11n)
.model IPD068N10N3 VDMOS(Rg=1.6 Vto=3.63 Rd=3.91m Rs=824u Rb=1.52m Kp=155.8 Lambda=0.03
Cgdmin=18p Cgdmax=0.96n A=0.2 Cgs=3.67n Cjo=2.9n M=0.3 Is=172.1p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=6.8m Qg=51n)
.model IPD075N03L VDMOS(Rg=1.3 Vto=2.77 Rd=3.95m Rs=1.12m Rb=2.51m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=7.5m Qg=9n)
.model IPD079N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=3.88m Rs=1.29m Rb=2.17m Kp=127.1 Lambda=0.01
Cgdmin=10p Cgdmax=1.19n A=2.5 Cgs=3.64n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=7.9m Qg=22n)
.model IPD082N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=4.82m Rs=932u Rb=1.79m Kp=126.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.78n A=0.2 Cgs=2.97n Cjo=2.35n M=0.3 Is=139.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=8.2m Qg=42n)
.model IPD088N04L VDMOS(Rg=1.3 Vto=2.89 Rd=4.57m Rs=1.12m Rb=2.28m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.62n Cjo=1.26n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=8.8m Qg=10n)
.model IPD088N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=3.88m Rs=1.29m Rb=2.76m Kp=94.9 Lambda=0.01
Cgdmin=7p Cgdmax=0.75n A=2.5 Cgs=2.88n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=8.8m Qg=36n)
.model IPD090N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.67m Rs=1.53m Rb=3.18m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9m Qg=7n)
.model IPD096N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.68m Rs=729u Rb=2.66m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=9.6m Qg=26n)
.model IPD105N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.21m Rs=1.86m Rb=3.7m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10.5m Qg=7n)
.model IPD105N04L VDMOS(Rg=1.1 Vto=2.89 Rd=5.4m Rs=1.53m Rb=2.9m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.37n Cjo=1.09n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=10.5m Qg=9n)
.model IPD122N10N3 VDMOS(Rg=1.1 Vto=3.63 Rd=7.66m Rs=729u Rb=2.1m Kp=79.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.49n A=0.2 Cgs=1.86n Cjo=1.47n M=0.3 Is=87.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=12.2m Qg=26n)
.model IPD135N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.16m Rs=2.35m Rb=4.88m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=13.5m Qg=5n)
.model IPD135N08N3 VDMOS(Rg=2 Vto=3.9 Rd=6.5m Rs=1.24m Rb=3.94m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=13.5m Qg=19n)
.model IPD160N04L VDMOS(Rg=1.2 Vto=2.89 Rd=8.28m Rs=2.35m Rb=4.45m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.89n Cjo=0.75n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=16m Qg=6n)

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.model IPD180N10N3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.66m Rs=1.24m Rb=3.15m Kp=56.8 Lambda=0.03
Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=18m Qg=19n)
.model IPD220N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=12.2m Rs=2.05m Rb=4.85m Kp=40.1 Lambda=0.01
Cgdmin=3p Cgdmax=0.37n A=2.5 Cgs=1.18n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=22m Qg=7n)
.model IPD250N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=12.2m Rs=2.05m Rb=6.72m Kp=30 Lambda=0.01
Cgdmin=2p Cgdmax=0.24n A=2.5 Cgs=0.91n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=25m Qg=11n)
.model IPF039N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.63m Rs=1.39m Rb=1.88m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.1m Qg=25n)
.model IPF050N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.52m Rs=1.28m Rb=2.09m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.2m Qg=15n)
.model IPF060N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.27m Rs=1.11m Rb=2.19m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6.2m Qg=11n)
.model IPF075N03L VDMOS(Rg=1.3 Vto=2.77 Rd=4.15m Rs=1.12m Rb=2.51m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=7.7m Qg=9n)
.model IPF090N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.87m Rs=1.53m Rb=3.18m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9.2m Qg=7n)
.model IPF105N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.41m Rs=1.72m Rb=3.56m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10.7m Qg=7n)
.model IPF135N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.36m Rs=2.35m Rb=4.88m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=13.7m Qg=5n)
.model IPI023NE7N3 VDMOS(Rg=2.7 Vto=4.2 Rd=1.04m Rs=657u Rb=987u Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=7.77n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=2.3m Qg=155n)
.model IPI024N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.01m Rs=717u Rb=967u Kp=549.4 Lambda=0.01
Cgdmin=39p Cgdmax=4.32n A=2.5 Cgs=16.68n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=2.4m Qg=206n)
.model IPI028N08N3 VDMOS(Rg=2.7 Vto=3.9 Rd=1.13m Rs=873u Rb=1.2m Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=9.55n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=2.8m Qg=155n)
.model IPI030N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=1.63m Rs=697u Rb=927u Kp=469.2 Lambda=0.03
Cgdmin=55p Cgdmax=2.89n A=0.2 Cgs=11.05n Cjo=8.73n M=0.3 Is=518.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=3m Qg=155n)
.model IPI032N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=601u Rb=1.02m Kp=330.1 Lambda=0.01
Cgdmin=24p Cgdmax=2.59n A=2.5 Cgs=10.02n Cjo=6.75n M=0.3 Is=20p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.2m Qg=124n)
.model IPI034NE7N3 VDMOS(Rg=1.9 Vto=4.2 Rd=1.56m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=4.42n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=3.4m Qg=88n)
.model IPI037N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.75m Rs=833u Rb=1.15m Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.7m Qg=59n)
.model IPI037N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=1.72m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=5.43n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=3.75m Qg=88n)
.model IPI040N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.75m Rs=833u Rb=1.37m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=4m Qg=98n)

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.model IPI045N10N3 VDMOS(Rg=1.4 Vto=3.63 Rd=2.61m Rs=748u Rb=1.16m Kp=266.6 Lambda=0.03
Cgdmin=31p Cgdmax=1.64n A=0.2 Cgs=6.28n Cjo=4.96n M=0.3 Is=294.5p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=4.5m Qg=88n)
.model IPI052NE7N3 VDMOS(Rg=2.2 Vto=4.2 Rd=2.41m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=2.58n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=5.2m Qg=51n)
.model IPI057N08N3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.7m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.7m Qg=51n)
.model IPI070N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=3.26m Rs=879u Rb=2.09m Kp=129.7 Lambda=0.03
Cgdmin=18p Cgdmax=0.92n A=0.2 Cgs=2.86n Cjo=2.57n M=0.27 Is=55.7p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=7m Qg=42n)
.model IPI072N10N3 VDMOS(Rg=1.6 Vto=3.63 Rd=4.21m Rs=1.04m Rb=1.74m Kp=155.8 Lambda=0.03
Cgdmin=18p Cgdmax=0.96n A=0.2 Cgs=3.67n Cjo=2.9n M=0.3 Is=172.1p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=7.2m Qg=51n)
.model IPI086N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=5.12m Rs=1.15m Rb=2.01m Kp=126.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.78n A=0.2 Cgs=2.97n Cjo=2.35n M=0.3 Is=139.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=8.6m Qg=42n)
.model IPI100N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.98m Rs=947u Rb=2.88m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=10m Qg=26n)
.model IPI126N10N3 VDMOS(Rg=1.1 Vto=3.63 Rd=7.96m Rs=947u Rb=2.32m Kp=79.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.49n A=0.2 Cgs=1.86n Cjo=1.47n M=0.3 Is=87.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=12.6m Qg=26n)
.model IPI139N08N3 VDMOS(Rg=2 Vto=3.9 Rd=6.8m Rs=1.74m Rb=4.44m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=13.9m Qg=19n)
.model IPI180N10N3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.96m Rs=1.74m Rb=3.65m Kp=56.8 Lambda=0.03
Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=18m Qg=19n)
.model IPP015N04N VDMOS(Rg=1.5 Vto=4.95 Rd=660u Rs=591u Rb=681u Kp=1039.6 Lambda=0.03
Cgdmin=198p Cgdmax=2.77n A=0.6 Cgs=15.04n Cjo=12.99n M=0.3 Is=150.4p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=1.8m Qg=205n)
.model IPP023N04N VDMOS(Rg=1.6 Vto=4.95 Rd=1m Rs=845u Rb=1.03m Kp=498.5 Lambda=0.03
Cgdmin=95p Cgdmax=1.33n A=0.6 Cgs=7.21n Cjo=6.46n M=0.3 Is=72.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=2.6m Qg=98n)
.model IPP023NE7N3 VDMOS(Rg=2.7 Vto=4.2 Rd=1.04m Rs=657u Rb=987u Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=7.77n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=2.3m Qg=155n)
.model IPP024N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.01m Rs=717u Rb=967u Kp=549.4 Lambda=0.01
Cgdmin=39p Cgdmax=4.32n A=2.5 Cgs=16.68n Cjo=10.92n M=0.3 Is=33.4p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=2.4m Qg=206n)
.model IPP028N08N3 VDMOS(Rg=2.7 Vto=3.9 Rd=1.13m Rs=873u Rb=1.2m Kp=482.9 Lambda=0.03
Cgdmin=68p Cgdmax=3.44n A=0.2 Cgs=10.64n Cjo=9.55n M=0.27 Is=207.3p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=2.8m Qg=155n)
.model IPP030N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=1.63m Rs=697u Rb=927u Kp=469.2 Lambda=0.03
Cgdmin=55p Cgdmax=2.89n A=0.2 Cgs=11.05n Cjo=8.73n M=0.3 Is=518.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=3m Qg=155n)
.model IPP032N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.45m Rs=601u Rb=1.02m Kp=330.1 Lambda=0.01
Cgdmin=24p Cgdmax=2.59n A=2.5 Cgs=10.02n Cjo=6.75n M=0.3 Is=20p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.2m Qg=124n)
.model IPP034N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.73m Rs=941u Rb=1.43m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.7m Qg=25n)
.model IPP034NE7N3 VDMOS(Rg=1.9 Vto=4.2 Rd=1.56m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=4.42n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=3.4m Qg=88n)

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.model IPP037N06L3 VDMOS(Rg=1.3 Vto=2.5 Rd=1.75m Rs=833u Rb=1.15m Kp=348.8 Lambda=0.01
Cgdmin=28p Cgdmax=3.26n A=2.5 Cgs=9.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=3.7m Qg=59n)
.model IPP037N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=1.72m Rs=748u Rb=1.32m Kp=274.4 Lambda=0.03
Cgdmin=39p Cgdmax=1.95n A=0.2 Cgs=6.05n Cjo=5.43n M=0.27 Is=117.8p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=3.75m Qg=88n)
.model IPP039N04L VDMOS(Rg=1.6 Vto=2.89 Rd=1.94m Rs=941u Rb=1.35m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=4.6n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=4.2m Qg=29n)
.model IPP040N06N3 VDMOS(Rg=1.3 Vto=4.35 Rd=1.75m Rs=833u Rb=1.37m Kp=260.4 Lambda=0.01
Cgdmin=19p Cgdmax=2.05n A=2.5 Cgs=7.91n Cjo=5.41n M=0.3 Is=15.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=4m Qg=98n)
.model IPP041N04N VDMOS(Rg=1.6 Vto=4.95 Rd=1.73m Rs=941u Rb=1.35m Kp=234.6 Lambda=0.03
Cgdmin=45p Cgdmax=0.63n A=0.6 Cgs=3.39n Cjo=3.21n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=4.1m Qg=46n)
.model IPP042N03L VDMOS(Rg=1.6 Vto=2.77 Rd=2.22m Rs=1.01m Rb=1.68m Kp=322.1 Lambda=0.09
Cgdmin=46p Cgdmax=0.69n A=0.6 Cgs=2.86n Cjo=2.96n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.5m Qg=18n)
.model IPP045N10N3 VDMOS(Rg=1.4 Vto=3.63 Rd=2.61m Rs=748u Rb=1.16m Kp=266.6 Lambda=0.03
Cgdmin=31p Cgdmax=1.64n A=0.2 Cgs=6.28n Cjo=4.96n M=0.3 Is=294.5p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=4.5m Qg=88n)
.model IPP048N04N VDMOS(Rg=1.6 Vto=4.95 Rd=2.22m Rs=1.01m Rb=1.56m Kp=172.5 Lambda=0.03
Cgdmin=33p Cgdmax=0.46n A=0.6 Cgs=2.5n Cjo=2.42n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n mfg=Infineon
Vds=40 Ron=4.8m Qg=34n)
.model IPP052N06L3 VDMOS(Rg=1.2 Vto=2.5 Rd=2.58m Rs=953u Rb=1.46m Kp=218.6 Lambda=0.01
Cgdmin=17p Cgdmax=2.04n A=2.5 Cgs=6.23n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=5.2m Qg=37n)
.model IPP052NE7N3 VDMOS(Rg=2.2 Vto=4.2 Rd=2.41m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=2.58n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=75 Ron=5.2m Qg=51n)
.model IPP055N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.62m Rs=1.67m Rb=2.48m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.8m Qg=15n)
.model IPP057N06N3 VDMOS(Rg=1.2 Vto=4.35 Rd=2.58m Rs=953u Rb=1.81m Kp=163.2 Lambda=0.01
Cgdmin=12p Cgdmax=1.28n A=2.5 Cgs=4.96n Cjo=3.52n M=0.3 Is=9.9p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=5.7m Qg=61n)
.model IPP057N08N3 VDMOS(Rg=2.2 Vto=3.9 Rd=2.7m Rs=1.04m Rb=2.02m Kp=160.4 Lambda=0.03
Cgdmin=23p Cgdmax=1.14n A=0.2 Cgs=3.53n Cjo=3.17n M=0.27 Is=68.9p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=5.7m Qg=51n)
.model IPP065N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.37m Rs=1.52m Rb=2.6m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6.8m Qg=11n)
.model IPP065N04N VDMOS(Rg=1.5 Vto=4.95 Rd=2.62m Rs=1.67m Rb=2.34m Kp=142.2 Lambda=0.03
Cgdmin=27p Cgdmax=0.38n A=0.6 Cgs=2.06n Cjo=2.04n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=40 Ron=6.5m Qg=28n)
.model IPP070N08N3 VDMOS(Rg=1.9 Vto=3.9 Rd=3.26m Rs=879u Rb=2.09m Kp=129.7 Lambda=0.03
Cgdmin=18p Cgdmax=0.92n A=0.2 Cgs=2.86n Cjo=2.57n M=0.27 Is=55.7p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=7m Qg=42n)
.model IPP072N10N3 VDMOS(Rg=1.6 Vto=3.63 Rd=4.21m Rs=1.04m Rb=1.74m Kp=155.8 Lambda=0.03
Cgdmin=18p Cgdmax=0.96n A=0.2 Cgs=3.67n Cjo=2.9n M=0.3 Is=172.1p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=7.2m Qg=51n)
.model IPP080N03L VDMOS(Rg=1.3 Vto=2.77 Rd=4.25m Rs=1.56m Rb=2.95m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=8.3m Qg=9n)
.model IPP084N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=4.18m Rs=1.72m Rb=2.6m Kp=127.1 Lambda=0.01
Cgdmin=10p Cgdmax=1.19n A=2.5 Cgs=3.64n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=8.4m Qg=22n)

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.model IPP086N10N3 VDMOS(Rg=1.9 Vto=3.63 Rd=5.12m Rs=1.15m Rb=2.01m Kp=126.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.78n A=0.2 Cgs=2.97n Cjo=2.35n M=0.3 Is=139.3p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=8.6m Qg=42n)
.model IPP093N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=4.18m Rs=1.72m Rb=3.19m Kp=94.9 Lambda=0.01
Cgdmin=7p Cgdmax=0.75n A=2.5 Cgs=2.88n Cjo=2.16n M=0.3 Is=5.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=9.3m Qg=36n)
.model IPP096N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.97m Rs=2.16m Rb=3.81m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9.9m Qg=7n)
.model IPP100N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.98m Rs=947u Rb=2.88m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=10m Qg=26n)
.model IPP114N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.51m Rs=2.74m Rb=4.58m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=11.7m Qg=7n)
.model IPP126N10N3 VDMOS(Rg=1.1 Vto=3.63 Rd=7.96m Rs=947u Rb=2.32m Kp=79.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.49n A=0.2 Cgs=1.86n Cjo=1.47n M=0.3 Is=87.4p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=12.6m Qg=26n)
.model IPP139N08N3 VDMOS(Rg=2 Vto=3.9 Rd=6.8m Rs=1.74m Rb=4.44m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=13.9m Qg=19n)
.model IPP147N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.46m Rs=3.53m Rb=6.06m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=15m Qg=5n)
.model IPP180N10N3 VDMOS(Rg=1.3 Vto=3.63 Rd=10.96m Rs=1.74m Rb=3.65m Kp=56.8 Lambda=0.03
Cgdmin=7p Cgdmax=0.35n A=0.2 Cgs=1.34n Cjo=1.06n M=0.3 Is=62.7p VJ=0.9 N=1.19 TT=60n
mfg=Infineon Vds=100 Ron=18m Qg=19n)
.model IPP230N06L3 VDMOS(Rg=0.9 Vto=2.5 Rd=12.5m Rs=2.9m Rb=5.7m Kp=40.1 Lambda=0.01
Cgdmin=3p Cgdmax=0.37n A=2.5 Cgs=1.18n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=23m Qg=7n)
.model IPP260N06N3 VDMOS(Rg=0.9 Vto=4.35 Rd=12.5m Rs=2.9m Rb=7.57m Kp=30 Lambda=0.01
Cgdmin=2p Cgdmax=0.24n A=2.5 Cgs=0.91n Cjo=0.79n M=0.3 Is=1.8p VJ=0.9 N=1.06 TT=30n
mfg=Infineon Vds=60 Ron=26m Qg=11n)
.model IPS031N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.63m Rs=723u Rb=1.21m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=3.3m Qg=25n)
.model IPS040N03L VDMOS(Rg=1.6 Vto=2.77 Rd=2.12m Rs=745u Rb=1.42m Kp=322.1 Lambda=0.09
Cgdmin=46p Cgdmax=0.69n A=0.6 Cgs=2.86n Cjo=2.96n M=0.3 Is=25p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.2m Qg=18n)
.model IPS050N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.52m Rs=1.25m Rb=2.06m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.2m Qg=15n)
.model IPS060N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.27m Rs=1.11m Rb=2.19m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6.2m Qg=11n)
.model IPS075N03L VDMOS(Rg=1.3 Vto=2.77 Rd=4.15m Rs=1.12m Rb=2.51m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=7.7m Qg=9n)
.model IPS090N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.87m Rs=1.53m Rb=3.18m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9.2m Qg=7n)
.model IPS105N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.41m Rs=1.86m Rb=3.7m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10.7m Qg=7n)
.model IPS135N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.36m Rs=2.35m Rb=4.88m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=13.7m Qg=5n)

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.model IPU039N03L VDMOS(Rg=1.6 Vto=2.77 Rd=1.63m Rs=1.39m Rb=1.88m Kp=438.1 Lambda=0.09
Cgdmin=63p Cgdmax=0.94n A=0.6 Cgs=3.89n Cjo=3.88n M=0.3 Is=33.9p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=4.1m Qg=25n)
.model IPU050N03L VDMOS(Rg=1.5 Vto=2.77 Rd=2.52m Rs=1.28m Rb=2.09m Kp=265.6 Lambda=0.09
Cgdmin=38p Cgdmax=0.57n A=0.6 Cgs=2.36n Cjo=2.5n M=0.3 Is=20.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=5.2m Qg=15n)
.model IPU060N03L VDMOS(Rg=1.4 Vto=2.77 Rd=3.27m Rs=1.11m Rb=2.19m Kp=199.8 Lambda=0.09
Cgdmin=29p Cgdmax=0.43n A=0.6 Cgs=1.77n Cjo=1.96n M=0.3 Is=15.5p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=6.2m Qg=11n)
.model IPU075N03L VDMOS(Rg=1.3 Vto=2.77 Rd=4.15m Rs=1.12m Rb=2.51m Kp=154.5 Lambda=0.09
Cgdmin=22p Cgdmax=0.33n A=0.6 Cgs=1.37n Cjo=1.57n M=0.3 Is=12p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=7.7m Qg=9n)
.model IPU090N03L VDMOS(Rg=1.1 Vto=2.77 Rd=4.87m Rs=1.53m Rb=3.18m Kp=130.5 Lambda=0.09
Cgdmin=19p Cgdmax=0.28n A=0.6 Cgs=1.16n Cjo=1.37n M=0.3 Is=10.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=9.2m Qg=7n)
.model IPU103N08N3 VDMOS(Rg=1.6 Vto=3.9 Rd=4.88m Rs=1.52m Rb=3.45m Kp=81.4 Lambda=0.03
Cgdmin=12p Cgdmax=0.58n A=0.2 Cgs=1.79n Cjo=1.61n M=0.27 Is=35p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=10.3m Qg=26n)
.model IPU105N03L VDMOS(Rg=1.2 Vto=2.77 Rd=5.41m Rs=1.72m Rb=3.56m Kp=116.9 Lambda=0.09
Cgdmin=17p Cgdmax=0.25n A=0.6 Cgs=1.04n Cjo=1.25n M=0.3 Is=9.1p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=10.7m Qg=7n)
.model IPU135N03L VDMOS(Rg=1.2 Vto=2.77 Rd=7.36m Rs=2.35m Rb=4.88m Kp=84.9 Lambda=0.09
Cgdmin=12p Cgdmax=0.18n A=0.6 Cgs=0.75n Cjo=0.96n M=0.3 Is=6.6p VJ=0.9 N=1.1 TT=3n
mfg=Infineon Vds=30 Ron=13.7m Qg=5n)
.model IPU135N08N3 VDMOS(Rg=2 Vto=3.9 Rd=6.7m Rs=1.32m Rb=4.02m Kp=58.4 Lambda=0.03
Cgdmin=8p Cgdmax=0.42n A=0.2 Cgs=1.29n Cjo=1.16n M=0.27 Is=25.1p VJ=0.9 N=1.16 TT=40n
mfg=Infineon Vds=80 Ron=13.5m Qg=19n)
.model FDS2734 VDMOS(Rg=3 Rd=100m Rs=0 Vto=3.3 Kp=11 Lambda=.03 mtriode=4 Cgdmax=1000p
Cgdmin=30p Cgs=2n Cjo=1n Is=2.8p Rb=3.3m mfg=Fairchild Vds=250 Ron=117m Qg=32n)
.MODEL IXTP6N100D2 VDMOS(KP=2.9 RS=0.1 RD=1.3 RG=1 VTO=-2.7 LAMBDA=0.03
CGDMAX=3000p CGDMIN=2p CGS=2915p TT=1371n a=1 IS=2.13E-08 N=1.564 RB=0.0038 m=0.548
Vj=0.1 Cjo=3200pF subthres=2.5m)
.MODEL IXTH20N50D VDMOS KP=1.9 RS=1m RD=.222 VTO=-1.5 RDS=20E6 Lambda=4m subthres=8m
CJO=4.9n M=1.5 a=1 CGDMAX=900p CGDMIN=80p CGS=6200p a=1 VJ=2.6 RG=10m IS=1.37u N=2
.model IRFH5004 VDMOS(Rg=1.7 Vto=3.7 Rd=0.4m Rs=0.10m Rb=0.9m Kp=90 Cgdmax=3.5n
Cgdmin=0.4n Cgs=3n Cjo=1.7n Is=9p tt=34n mfg=International_Rectifier Vds=40 Ron=2.2m Qg=75n)
.model IRFH5015 VDMOS(Rg=1.7 Vto=4.95 Rd=17m Rs=0m Rb=1.45m Kp=24 Cgdmax=1.0n
Cgdmin=0.07n Cgs=1.8n Cjo=1.45n Is=60p tt=42n mfg=International_Rectifier Vds=150 Ron=25.5m
Qg=33n)
.model IRFH5020 VDMOS(Rg=1.9 Vto=4.4 Rd=33m Rs=0m Rb=2.2m Kp=13 Cgdmax=1.45n
Cgdmin=0.025n Cgs=1.8n Cjo=1.3n Is=59p tt=46n mfg=International_Rectifier Vds=200 Ron=47m
Qg=36n)
.model IRFH5250 VDMOS(Rg=1.3 Vto=2.35 Rd=0.38m Rs=0.0m Rb=2m Kp=250 Cgdmax=4.1n
Cgdmin=0.85n Cgs=5.1n Cjo=2.5n Is=400p mfg=International_Rectifier Vds=25 Ron=0.9m Qg=110n)
.model IRFH5255 VDMOS(Rg=0.6 Vto=2.35 Rd=0.63m Rs=0.0m Rb=3.8m Kp=30 Cgdmax=0.48n
Cgdmin=140p Cgs=0.65n Cjo=1.68n Is=60p mfg=International_Rectifier Vds=25 Ron=5.0m Qg=14.5n)
.model IRFH5300 VDMOS(Rg=1.3 Vto=2.35 Rd=0.52m Rs=0.0m Rb=2.18m Kp=225 Cgdmax=5.0n
Cgdmin=0.001n Cgs=6.0n Cjo=2.5n Is=400p mfg=International_Rectifier Vds=30 Ron=1.1m Qg=120n)
.model IRFH5302 VDMOS(Rg=1.6 Vto=2.35 Rd=0.8m Rs=0m Rb=1.2m Kp=130 Cgdmax=2.9n
Cgdmin=0.015n Cgs=3.40n Cjo=1.68n Is=400p mfg=International_Rectifier Vds=30 Ron=1.8m Qg=76n)
.model IRFH5302D VDMOS(Rg=1.9 Vto=2.35 Rd=1.0m Rs=.0125m Rb=1.6m Kp=125 Cgdmax=2.2n
Cgdmin=0.05n Cgs=3.0n Cjo=1.68n Is=200n mfg=International_Rectifier Vds=30 Ron=2.0m Qg=55n)
.model IRFH5306 VDMOS(Rg=1.4 Vto=2.35 Rd=2.05m Rs=0.0m Rb=3.5m Kp=27 Cgdmax=0.58n
Cgdmin=160p Cgs=0.5n Cjo=3.5n Is=300p mfg=International_Rectifier Vds=30 Ron=6.9m Qg=7.8n)
.model IRLH5030 VDMOS(Rg=1.5 Vto=2 Rd=6.5m Rs=0.0m Rb=1.2m Kp=120 Cgdmax=3.75n
Cgdmin=0.1n Cgs=3.3n Cjo=1.7n Is=60p tt=30n mfg=International_Rectifier Vds=100 Ron=7.5m Qg=87n)

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.MODEL IRF7490 VDMOS(KP=29.82 RS=0.4m RD=33.2m RG=0.5 VTO=3.84 LAMBDA=10m
CGDMAX=3.1n CGDMIN=10p CGS=1.7n TT=96n a=1.91 IS=4.32E-10 N=1.187 RB=0.18827 m=0.495
Vj=1.3 Cjo=1n mfg=International_Rectifier Vds=100 Ron=39m Qg=37n)
.model BSB012NE2LX VDMOS(Rg=0.55 Vto=2.33 Rd=632u Rs=85u Rb=415u Kp=1031.4 Lambda=0.09
Cgdmin=88p Cgdmax=1.58n A=0.6 Cgs=4.73n Cjo=5.17n M=0.75 Is=53.6p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=1.2m Qg=33n)
.model BSB013NE2LXI VDMOS(Rg=0.6 Vto=2.33 Rd=652u Rs=85u Rb=1.37m Kp=893.8 Lambda=0.09
Cgdmin=88p Cgdmax=1.58n A=0.6 Cgs=4.23n Cjo=5.17n M=0.75 Is=53618p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=25 Ron=1.3m Qg=30n)
.model BSC010NE2LS VDMOS(Rg=0.6 Vto=2.33 Rd=400u Rs=236u Rb=586u Kp=976.6 Lambda=0.09
Cgdmin=84p Cgdmax=1.49n A=0.6 Cgs=4.48n Cjo=4.91n M=0.75 Is=50.8p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=1m Qg=31n)
.model BSC010NE2LSI VDMOS(Rg=0.6 Vto=2.33 Rd=420u Rs=236u Rb=1.59m Kp=852.9 Lambda=0.09
Cgdmin=84p Cgdmax=1.5n A=0.6 Cgs=4.03n Cjo=4.95n M=0.75 Is=51161.5p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=25 Ron=1.05m Qg=29n)
.model BSC011N03LS VDMOS(Rg=0.6 Vto=2.3 Rd=440u Rs=236u Rb=586u Kp=958.7 Lambda=0.07
Cgdmin=119p Cgdmax=2.09n A=0.6 Cgs=4.48n Cjo=4.91n M=0.75 Is=50.8p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=1.1m Qg=34n)
.model BSC018NE2LS VDMOS(Rg=0.8 Vto=2.33 Rd=640u Rs=365u Rb=945u Kp=590.6 Lambda=0.09
Cgdmin=51p Cgdmax=0.9n A=0.6 Cgs=2.71n Cjo=3.1n M=0.75 Is=30.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=1.8m Qg=19n)
.model BSC019NE2LSI VDMOS(Rg=0.8 Vto=2.33 Rd=680u Rs=365u Rb=2.61m Kp=511.8 Lambda=0.09
Cgdmin=51p Cgdmax=0.9n A=0.6 Cgs=2.42n Cjo=3.1n M=0.75 Is=30702p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=25 Ron=1.9m Qg=17n)
.model BSC024NE2LS VDMOS(Rg=0.9 Vto=2.33 Rd=1.07m Rs=331u Rb=1.31m Kp=351.5 Lambda=0.09
Cgdmin=30p Cgdmax=0.54n A=0.6 Cgs=1.61n Cjo=1.94n M=0.75 Is=18.3p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=2.4m Qg=11n)
.model BSC032NE2LS VDMOS(Rg=0.9 Vto=2.33 Rd=1.54m Rs=300u Rb=1.72m Kp=242.5 Lambda=0.09
Cgdmin=21p Cgdmax=0.37n A=0.6 Cgs=1.11n Cjo=1.4n M=0.75 Is=12.6p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=3.2m Qg=8n)
.model BSC050NE2LS VDMOS(Rg=0.65 Vto=2.33 Rd=2.36m Rs=276u Rb=2.46m Kp=157.5
Lambda=0.09 Cgdmin=13p Cgdmax=0.24n A=0.6 Cgs=0.72n Cjo=0.97n M=0.75 Is=8.2p VJ=2.5 N=1.12
TT=3n mfg=Infineon Vds=25 Ron=5m Qg=5n)
.model BSC052N03LS VDMOS(Rg=0.65 Vto=2.3 Rd=2.64m Rs=276u Rb=2.46m Kp=154.6 Lambda=0.07
Cgdmin=19p Cgdmax=0.34n A=0.6 Cgs=0.72n Cjo=0.97n M=0.75 Is=8.2p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=5.2m Qg=5n)
.model BSC077N12NS3 VDMOS(Rg=1.3 Vto=4.15 Rd=4.56m Rs=450u Rb=1.73m Kp=91.9 Lambda=0.03
Cgdmin=24p Cgdmax=1.4n A=0.3 Cgs=4.26n Cjo=3.18n M=0.35 Is=21.3p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=7.7m Qg=65n)
.model BSC079N10NS VDMOS(Rg=1.3 Vto=4.15 Rd=4.56m Rs=450u Rb=1.73m Kp=91.9 Lambda=0.03
Cgdmin=24p Cgdmax=1.4n A=0.3 Cgs=4.26n Cjo=3.18n M=0.35 Is=21.3p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=100 Ron=7.9m Qg=65n)
.model BSC082N10LS VDMOS(Rg=1.3 Vto=2.9 Rd=5.75m Rs=450u Rb=1.92m Kp=289.2 Lambda=0.03
Cgdmin=24p Cgdmax=1.4n A=0.3 Cgs=5.49n Cjo=3.18n M=0.35 Is=21.3p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=8.2m Qg=36n)
.model BSC0901NS VDMOS(Rg=0.8 Vto=2.3 Rd=720u Rs=365u Rb=945u Kp=579.7 Lambda=0.07
Cgdmin=72p Cgdmax=1.26n A=0.6 Cgs=2.71n Cjo=3.1n M=0.75 Is=30.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=1.9m Qg=21n)
.model BSC0901NSI VDMOS(Rg=0.8 Vto=2.33 Rd=770u Rs=365u Rb=2.61m Kp=511.8 Lambda=0.09
Cgdmin=51p Cgdmax=1.26n A=0.6 Cgs=2.42n Cjo=3.1n M=0.75 Is=30702p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=2m Qg=19n)
.model BSC0902NS VDMOS(Rg=0.9 Vto=2.3 Rd=1.19m Rs=331u Rb=1.31m Kp=345.1 Lambda=0.07
Cgdmin=43p Cgdmax=0.75n A=0.6 Cgs=1.61n Cjo=1.94n M=0.75 Is=18.3p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=2.6m Qg=12n)
.model BSC0902NSI VDMOS(Rg=0.9 Vto=2.33 Rd=1.28m Rs=331u Rb=4.1m Kp=304.7 Lambda=0.09
Cgdmin=30p Cgdmax=0.75n A=0.6 Cgs=1.44n Cjo=1.94n M=0.75 Is=18275p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=2.8m Qg=11n)

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.model BSC0904NSI VDMOS(Rg=0.9 Vto=2.33 Rd=1.84m Rs=301u Rb=5.76m Kp=210.1 Lambda=0.09
Cgdmin=21p Cgdmax=0.52n A=0.6 Cgs=0.99n Cjo=1.4n M=0.75 Is=12605.5p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=3.7m Qg=8n)
.model BSC0906NS VDMOS(Rg=4 Vto=2.3 Rd=2.34m Rs=276u Rb=2.21m Kp=174.8 Lambda=0.07
Cgdmin=22p Cgdmax=0.38n A=0.6 Cgs=0.82n Cjo=1.08n M=0.75 Is=9.3p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=4.5m Qg=6n)
.model BSC100N10NSF VDMOS(Rg=1.3 Vto=4.25 Rd=4.47m Rs=450u Rb=1.16m Kp=56.1 Lambda=0.03
Cgdmin=24p Cgdmax=0.7n A=0.3 Cgs=2.13n Cjo=2.24n M=0.35 Is=21.3p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=100 Ron=10m Qg=33n)
.model BSC105N10LSF VDMOS(Rg=1.3 Vto=2.8 Rd=5.54m Rs=450u Rb=1.92m Kp=129.3 Lambda=0.03
Cgdmin=24p Cgdmax=0.7n A=0.3 Cgs=2.75n Cjo=3.25n M=0.35 Is=21.3p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=10.5m Qg=18n)
.model BSC118N10NS VDMOS(Rg=1 Vto=4.15 Rd=7.09m Rs=349u Rb=2.35m Kp=59.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.9n A=0.3 Cgs=2.74n Cjo=2.05n M=0.35 Is=13.7p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=100 Ron=11.8m Qg=42n)
.model BSC123N10LS VDMOS(Rg=1.0 Vto=2.9 Rd=8.95m Rs=349u Rb=2.64m Kp=185.9 Lambda=0.03
Cgdmin=15p Cgdmax=0.9n A=0.3 Cgs=3.53n Cjo=2.05n M=0.35 Is=13.7p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=12.3m Qg=23n)
.model BSC12DN20NS3 VDMOS(Rg=2.2 Vto=3.7 Rd=92.72m Rs=455u Rb=13.79m Kp=12.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.07n A=0.5 Cgs=0.45n Cjo=0.68n M=0.45 Is=4.3p VJ=0.9 N=1.12
TT=120n mfg=Infineon Vds=200 Ron=125m Qg=6n)
.model BSC152N10NSF VDMOS(Rg=1.0 Vto=4.25 Rd=6.95m Rs=349u Rb=1.46m Kp=36 Lambda=0.03
Cgdmin=15p Cgdmax=0.45n A=0.3 Cgs=1.37n Cjo=1.44n M=0.35 Is=13.7p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=100 Ron=15.2m Qg=21n)
.model BSC159N10LSF VDMOS(Rg=1.0 Vto=2.8 Rd=8.61m Rs=349u Rb=2.64m Kp=83.1 Lambda=0.03
Cgdmin=15p Cgdmax=0.45n A=0.3 Cgs=1.77n Cjo=2.09n M=0.35 Is=13.7p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=15.9m Qg=11n)
.model BSC16DN25NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=132.01m Rs=561u Rb=10.05m Kp=17.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.09n A=0.5 Cgs=0.63n Cjo=0.95n M=0.48 Is=6p VJ=0.9 N=1.12
TT=150n mfg=Infineon Vds=250 Ron=165m Qg=8n)
.model BSC190N12NS3 VDMOS(Rg=1.5 Vto=4.15 Rd=11.96m Rs=276u Rb=3.65m Kp=35 Lambda=0.03
Cgdmin=9p Cgdmax=0.53n A=0.3 Cgs=1.62n Cjo=1.21n M=0.35 Is=8.1p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=19m Qg=25n)
.model BSC190N15NS3 VDMOS(Rg=2.4 Vto=4.4 Rd=11.97m Rs=404u Rb=1.61m Kp=49.8 Lambda=0.02
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.81n Cjo=2.72n M=0.4 Is=68.9p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=19m Qg=23n)
.model BSC196N10NS VDMOS(Rg=1.5 Vto=4.15 Rd=11.96m Rs=276u Rb=3.65m Kp=35 Lambda=0.03
Cgdmin=9p Cgdmax=0.53n A=0.3 Cgs=1.62n Cjo=1.21n M=0.35 Is=8.1p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=100 Ron=19.6m Qg=25n)
.model BSC205N10LS VDMOS(Rg=1.5 Vto=2.9 Rd=15.1m Rs=276u Rb=4.15m Kp=110.1 Lambda=0.03
Cgdmin=9p Cgdmax=0.53n A=0.3 Cgs=2.09n Cjo=1.21n M=0.35 Is=8.1p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=20.5m Qg=14n)
.model BSC22DN20NS3 VDMOS(Rg=2 Vto=3.7 Rd=163.71m Rs=233u Rb=23.78m Kp=7 Lambda=0.015
Cgdmin=1p Cgdmax=0.04n A=0.5 Cgs=0.25n Cjo=0.38n M=0.45 Is=2.4p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=225m Qg=3n)
.model BSC240N12NS3 VDMOS(Rg=1.5 Vto=4.15 Rd=15.14m Rs=367u Rb=4.63m Kp=27.7
Lambda=0.03 Cgdmin=7p Cgdmax=0.42n A=0.3 Cgs=1.28n Cjo=0.96n M=0.35 Is=6.4p VJ=0.8 N=1.11
TT=90n mfg=Infineon Vds=120 Ron=24m Qg=20n)
.model BSC252N10NSF VDMOS(Rg=1.5 Vto=4.25 Rd=11.72m Rs=276u Rb=2.15m Kp=21.3
Lambda=0.03 Cgdmin=9p Cgdmax=0.26n A=0.3 Cgs=0.81n Cjo=0.85n M=0.35 Is=8.1p VJ=0.8 N=1.11
TT=90n mfg=Infineon Vds=100 Ron=25.2m Qg=12n)
.model BSC265N10LSF VDMOS(Rg=1.5 Vto=2.8 Rd=14.53m Rs=276u Rb=4.15m Kp=49.2 Lambda=0.03
Cgdmin=9p Cgdmax=0.26n A=0.3 Cgs=1.05n Cjo=1.24n M=0.35 Is=8.1p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=26.5m Qg=7n)
.model BSC320N20NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=23.61m Rs=404u Rb=3.79m Kp=48.7
Lambda=0.015 Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.45 Is=16.8p VJ=0.9 N=1.12
TT=120n mfg=Infineon Vds=200 Ron=32m Qg=22n)
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.model BSC360N15NS3 VDMOS(Rg=2.1 Vto=4.4 Rd=24.34m Rs=251u Rb=2.72m Kp=24.5 Lambda=0.02
Cgdmin=3p Cgdmax=0.13n A=0.5 Cgs=0.89n Cjo=1.33n M=0.4 Is=33.8p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=36m Qg=11n)
.model BSC42DN25NS3 VDMOS(Rg=2 Vto=3.7 Rd=327.37m Rs=233u Rb=23.78m Kp=7 Lambda=0.015
Cgdmin=1p Cgdmax=0.04n A=0.5 Cgs=0.25n Cjo=0.38n M=0.48 Is=2.4p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=425m Qg=3n)
.model BSC520N15NS3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.58m Rs=603u Rb=3.91m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=52m Qg=9n)
.model BSC600N25NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=47.17m Rs=404u Rb=3.79m Kp=48.7
Lambda=0.015 Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.48 Is=16.8p VJ=0.9 N=1.12
TT=150n mfg=Infineon Vds=250 Ron=60m Qg=21n)
.model BSC750N10ND VDMOS(Rg=0.8 Vto=4.15 Rd=41.21m Rs=5.06m Rb=16.69m Kp=10.2
Lambda=0.03 Cgdmin=3p Cgdmax=0.15n A=0.3 Cgs=0.47n Cjo=0.35n M=0.35 Is=2.4p VJ=0.8 N=1.11
TT=90n mfg=Infineon Vds=100 Ron=75m Qg=7n)
.model BSC900N20NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=66.03m Rs=561u Rb=10.05m Kp=17.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.09n A=0.5 Cgs=0.63n Cjo=0.95n M=0.45 Is=6p VJ=0.9 N=1.12
TT=120n mfg=Infineon Vds=200 Ron=90m Qg=8n)
.model BSF030NE2LQ VDMOS(Rg=0.5 Vto=2.33 Rd=1.72m Rs=123u Rb=1.08m Kp=358.1 Lambda=0.09
Cgdmin=31p Cgdmax=0.55n A=0.6 Cgs=1.64n Cjo=1.98n M=0.75 Is=18.6p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=3m Qg=11n)
.model BSZ018NE2LS VDMOS(Rg=0.8 Vto=2.33 Rd=640u Rs=662u Rb=1.24m Kp=590.6 Lambda=0.09
Cgdmin=51p Cgdmax=0.9n A=0.6 Cgs=2.71n Cjo=3.1n M=0.75 Is=30.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=1.8m Qg=19n)
.model BSZ019N03LS VDMOS(Rg=0.8 Vto=2.3 Rd=720u Rs=662u Rb=1.24m Kp=579.7 Lambda=0.07
Cgdmin=72p Cgdmax=1.26n A=0.6 Cgs=2.71n Cjo=3.1n M=0.75 Is=30.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=1.9m Qg=21n)
.model BSZ036NE2LS VDMOS(Rg=0.9 Vto=2.33 Rd=1.54m Rs=1.04m Rb=2.46m Kp=242.5
Lambda=0.09 Cgdmin=21p Cgdmax=0.37n A=0.6 Cgs=1.11n Cjo=1.4n M=0.75 Is=12.6p VJ=2.5 N=1.12
TT=3n mfg=Infineon Vds=25 Ron=3.6m Qg=8n)
.model BSZ060NE2LS VDMOS(Rg=1 Vto=2.33 Rd=2.68m Rs=990u Rb=3.47m Kp=138.3 Lambda=0.09
Cgdmin=12p Cgdmax=0.21n A=0.6 Cgs=0.63n Cjo=0.87n M=0.75 Is=7.2p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=25 Ron=6m Qg=4n)
.model BSZ065N03LS VDMOS(Rg=1 Vto=2.3 Rd=3m Rs=990u Rb=3.47m Kp=135.8 Lambda=0.07
Cgdmin=17p Cgdmax=0.3n A=0.6 Cgs=0.63n Cjo=0.87n M=0.75 Is=7.2p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=6.5m Qg=5n)
.model BSZ0901NS VDMOS(Rg=0.8 Vto=2.3 Rd=720u Rs=662u Rb=1.24m Kp=579.7 Lambda=0.07
Cgdmin=72p Cgdmax=1.26n A=0.6 Cgs=2.71n Cjo=3.1n M=0.75 Is=30.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=1.9m Qg=21n)
.model BSZ0901NSI VDMOS(Rg=0.8 Vto=2.33 Rd=770u Rs=662u Rb=2.9m Kp=511.8 Lambda=0.09
Cgdmin=51p Cgdmax=1.26n A=0.6 Cgs=2.42n Cjo=3.1n M=0.75 Is=30702p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=2.1m Qg=19n)
.model BSZ0902NS VDMOS(Rg=0.9 Vto=2.3 Rd=1.19m Rs=596u Rb=1.58m Kp=345.1 Lambda=0.07
Cgdmin=43p Cgdmax=0.75n A=0.6 Cgs=1.61n Cjo=1.94n M=0.75 Is=18.3p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=2.6m Qg=12n)
.model BSZ0902NSI VDMOS(Rg=0.9 Vto=2.33 Rd=1.28m Rs=596u Rb=4.37m Kp=304.7 Lambda=0.09
Cgdmin=30p Cgdmax=0.75n A=0.6 Cgs=1.44n Cjo=1.94n M=0.75 Is=18275p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=2.8m Qg=11n)
.model BSZ0904NSI VDMOS(Rg=0.9 Vto=2.33 Rd=1.84m Rs=1.04m Rb=6.5m Kp=210.1 Lambda=0.09
Cgdmin=21p Cgdmax=0.52n A=0.6 Cgs=0.99n Cjo=1.4n M=0.75 Is=12605.5p VJ=2.5 N=1.12 TT=1p
mfg=Infineon Vds=30 Ron=4m Qg=8n)
.model BSZ0905NS VDMOS(Rg=3 Vto=2.3 Rd=3.69m Rs=2.12m Rb=5.17m Kp=110.4 Lambda=0.07
Cgdmin=14p Cgdmax=0.24n A=0.6 Cgs=0.52n Cjo=0.73n M=0.75 Is=5.8p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=9m Qg=4n)
.model BSZ0920NS VDMOS(Rg=5 Vto=2.3 Rd=8.09m Rs=2.95m Rb=9.66m Kp=50.2 Lambda=0.07
Cgdmin=6p Cgdmax=0.11n A=0.6 Cgs=0.23n Cjo=0.39n M=0.75 Is=2.7p VJ=2.5 N=1.12 TT=3n
mfg=Infineon Vds=30 Ron=18m Qg=2n)

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.model BSZ12DN20NS3 VDMOS(Rg=2.2 Vto=3.7 Rd=92.72m Rs=361u Rb=13.69m Kp=12.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.07n A=0.5 Cgs=0.45n Cjo=0.68n M=0.45 Is=4.3p VJ=0.9 N=1.12
TT=120n mfg=Infineon Vds=200 Ron=125m Qg=6n)
.model BSZ16DN25NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=132.01m Rs=361u Rb=9.85m Kp=17.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.09n A=0.5 Cgs=0.63n Cjo=0.95n M=0.48 Is=6p VJ=0.9 N=1.12
TT=150n mfg=Infineon Vds=250 Ron=165m Qg=8n)
.model BSZ22DN20NS3 VDMOS(Rg=2 Vto=3.7 Rd=163.71m Rs=564u Rb=24.11m Kp=7 Lambda=0.015
Cgdmin=1p Cgdmax=0.04n A=0.5 Cgs=0.25n Cjo=0.38n M=0.45 Is=2.4p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=225m Qg=3n)
.model BSZ240N12NS3 VDMOS(Rg=1.5 Vto=4.15 Rd=15.14m Rs=420u Rb=4.68m Kp=27.7
Lambda=0.03 Cgdmin=7p Cgdmax=0.42n A=0.3 Cgs=1.28n Cjo=0.96n M=0.35 Is=6.4p VJ=0.8 N=1.11
TT=90n mfg=Infineon Vds=120 Ron=24m Qg=20n)
.model BSZ42DN25NS3 VDMOS(Rg=2 Vto=3.7 Rd=327.37m Rs=564u Rb=24.11m Kp=7 Lambda=0.015
Cgdmin=1p Cgdmax=0.04n A=0.5 Cgs=0.25n Cjo=0.38n M=0.48 Is=2.4p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=425m Qg=3n)
.model BSZ520N15NS3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.58m Rs=514u Rb=3.82m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=52m Qg=9n)
.model BSZ900N15NS3 VDMOS(Rg=1.7 Vto=4.4 Rd=57.81m Rs=954u Rb=6.83m Kp=10.3 Lambda=0.02
Cgdmin=1p Cgdmax=0.06n A=0.5 Cgs=0.37n Cjo=0.56n M=0.4 Is=14.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=90m Qg=5n)
.model BSZ900N20NS3 VDMOS(Rg=2.4 Vto=3.7 Rd=66.03m Rs=361u Rb=9.85m Kp=17.4
Lambda=0.015 Cgdmin=2p Cgdmax=0.09n A=0.5 Cgs=0.63n Cjo=0.95n M=0.45 Is=6p VJ=0.9 N=1.12
TT=120n mfg=Infineon Vds=200 Ron=90m Qg=8n)
.model IPA105N15N3 VDMOS(Rg=2 Vto=4.4 Rd=7.06m Rs=751u Rb=1.43m Kp=88.6 Lambda=0.02
Cgdmin=11p Cgdmax=0.48n A=0.5 Cgs=3.22n Cjo=4.83n M=0.4 Is=122.4p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=10.5m Qg=41n)
.model IPB036N12N3 VDMOS(Rg=1.3 Vto=4.15 Rd=1.9m Rs=385u Rb=915u Kp=222.2 Lambda=0.03
Cgdmin=57p Cgdmax=3.39n A=0.3 Cgs=10.3n Cjo=7.7n M=0.35 Is=51.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=3.6m Qg=157n)
.model IPB038N12N3 VDMOS(Rg=1.3 Vto=4.15 Rd=1.93m Rs=623u Rb=1.15m Kp=222.2 Lambda=0.03
Cgdmin=57p Cgdmax=3.39n A=0.3 Cgs=10.3n Cjo=7.7n M=0.35 Is=51.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=3.8m Qg=157n)
.model IPB065N15N3 VDMOS(Rg=2.3 Vto=4.4 Rd=3.98m Rs=393u Rb=793u Kp=150 Lambda=0.02
Cgdmin=19p Cgdmax=0.82n A=0.5 Cgs=5.46n Cjo=8.18n M=0.4 Is=207.3p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=6.5m Qg=70n)
.model IPB072N15N3 VDMOS(Rg=2.3 Vto=4.4 Rd=4.01m Rs=878u Rb=1.28m Kp=150 Lambda=0.02
Cgdmin=19p Cgdmax=0.82n A=0.5 Cgs=5.46n Cjo=8.18n M=0.4 Is=207.3p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=7.2m Qg=70n)
.model IPB107N20N3 VDMOS(Rg=2.3 Vto=3.7 Rd=7.87m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.45 Is=50.7p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=10.7m Qg=65n)
.model IPB108N15N3 VDMOS(Rg=2 Vto=4.4 Rd=6.76m Rs=609u Rb=1.29m Kp=88.6 Lambda=0.02
Cgdmin=11p Cgdmax=0.48n A=0.5 Cgs=3.22n Cjo=4.83n M=0.4 Is=122.4p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=10.8m Qg=41n)
.model IPB144N12N3 VDMOS(Rg=1.2 Vto=4.15 Rd=8.33m Rs=908u Rb=3.25m Kp=50.5 Lambda=0.03
Cgdmin=13p Cgdmax=0.77n A=0.3 Cgs=2.34n Cjo=1.75n M=0.35 Is=11.7p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=14.4m Qg=36n)
.model IPB200N15N3 VDMOS(Rg=2.4 Vto=4.4 Rd=11.97m Rs=1.05m Rb=2.26m Kp=49.8 Lambda=0.02
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.81n Cjo=2.72n M=0.4 Is=68.9p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=20m Qg=23n)
.model IPB200N25N3 VDMOS(Rg=2.3 Vto=3.7 Rd=15.69m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.48 Is=50.7p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=20m Qg=64n)
.model IPB320N20N3 VDMOS(Rg=2.4 Vto=3.7 Rd=23.61m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.45 Is=16.8p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=32m Qg=22n)

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.model IPB530N15N3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.58m Rs=1.86m Rb=5.17m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=53m Qg=9n)
.model IPB600N25N3 VDMOS(Rg=2.4 Vto=3.7 Rd=47.17m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.48 Is=16.8p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=60m Qg=21n)
.model IPD110N12N3 VDMOS(Rg=1.5 Vto=4.15 Rd=6.19m Rs=791u Rb=2.52m Kp=68.1 Lambda=0.03
Cgdmin=17p Cgdmax=1.04n A=0.3 Cgs=3.16n Cjo=2.36n M=0.35 Is=15.8p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=11m Qg=48n)
.model IPD200N15N3 VDMOS(Rg=2.4 Vto=4.4 Rd=11.97m Rs=829u Rb=2.04m Kp=49.8 Lambda=0.02
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.81n Cjo=2.72n M=0.4 Is=68.9p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=20m Qg=23n)
.model IPD320N20N3 VDMOS(Rg=2.4 Vto=3.7 Rd=23.61m Rs=829u Rb=4.22m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.45 Is=16.8p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=32m Qg=22n)
.model IPD530N15N3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.58m Rs=1.84m Rb=5.15m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=53m Qg=9n)
.model IPD600N25N3 VDMOS(Rg=2.4 Vto=3.7 Rd=47.17m Rs=829u Rb=4.22m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.48 Is=16.8p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=60m Qg=21n)
.model IPI041N12N3 VDMOS(Rg=1.3 Vto=4.15 Rd=2.23m Rs=623u Rb=1.15m Kp=222.2 Lambda=0.03
Cgdmin=57p Cgdmax=3.39n A=0.3 Cgs=10.3n Cjo=7.7n M=0.35 Is=51.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=4.1m Qg=157n)
.model IPI075N15N3 VDMOS(Rg=2.3 Vto=4.4 Rd=4.31m Rs=878u Rb=1.28m Kp=150 Lambda=0.02
Cgdmin=19p Cgdmax=0.82n A=0.5 Cgs=5.46n Cjo=8.18n M=0.4 Is=207.3p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=7.5m Qg=70n)
.model IPI076N12N3 VDMOS(Rg=1.5 Vto=4.15 Rd=4.3m Rs=705u Rb=1.83m Kp=105.8 Lambda=0.03
Cgdmin=27p Cgdmax=1.61n A=0.3 Cgs=4.9n Cjo=3.66n M=0.35 Is=24.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=7.6m Qg=75n)
.model IPI110N20N3 VDMOS(Rg=2.3 Vto=3.7 Rd=8.17m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.45 Is=50.7p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=11m Qg=65n)
.model IPI111N15N3 VDMOS(Rg=2 Vto=4.4 Rd=7.06m Rs=609u Rb=1.29m Kp=88.6 Lambda=0.02
Cgdmin=11p Cgdmax=0.48n A=0.5 Cgs=3.22n Cjo=4.83n M=0.4 Is=122.4p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=11.1m Qg=41n)
.model IPI147N12N3 VDMOS(Rg=1.2 Vto=4.15 Rd=8.63m Rs=908u Rb=3.25m Kp=50.5 Lambda=0.03
Cgdmin=13p Cgdmax=0.77n A=0.3 Cgs=2.34n Cjo=1.75n M=0.35 Is=11.7p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=14.7m Qg=36n)
.model IPI200N15N3 VDMOS(Rg=2.4 Vto=4.4 Rd=12.27m Rs=1.05m Rb=2.26m Kp=49.8 Lambda=0.02
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.81n Cjo=2.72n M=0.4 Is=68.9p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=20m Qg=23n)
.model IPI200N25N3 VDMOS(Rg=2.3 Vto=3.7 Rd=15.99m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.48 Is=50.7p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=20m Qg=64n)
.model IPI320N20N3 VDMOS(Rg=2.4 Vto=3.7 Rd=23.91m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.45 Is=16.8p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=32m Qg=22n)
.model IPI530N15N3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.88m Rs=1.86m Rb=5.17m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=53m Qg=9n)
.model IPI600N25N3 VDMOS(Rg=2.4 Vto=3.7 Rd=47.47m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.48 Is=16.8p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=60m Qg=21n)
.model IPP041N12N3 VDMOS(Rg=1.3 Vto=4.15 Rd=2.23m Rs=623u Rb=1.15m Kp=222.2 Lambda=0.03
Cgdmin=57p Cgdmax=3.39n A=0.3 Cgs=10.3n Cjo=7.7n M=0.35 Is=51.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=4.1m Qg=157n)

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.model IPP048N12N3 VDMOS(Rg=1.8 Vto=4.15 Rd=2.52m Rs=805u Rb=1.42m Kp=192.5 Lambda=0.03
Cgdmin=49p Cgdmax=2.93n A=0.3 Cgs=8.92n Cjo=6.67n M=0.35 Is=44.6p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=4.8m Qg=136n)
.model IPP05CN10L VDMOS(Rg=1.9 Vto=2.9 Rd=3.09m Rs=805u Rb=1.51m Kp=605.5 Lambda=0.03
Cgdmin=49p Cgdmax=2.93n A=0.3 Cgs=11.5n Cjo=6.67n M=0.35 Is=44.6p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=5.4m Qg=75n)
.model IPP06CN10L VDMOS(Rg=1.6 Vto=2.9 Rd=3.95m Rs=745u Rb=1.67m Kp=461.8 Lambda=0.03
Cgdmin=38p Cgdmax=2.24n A=0.3 Cgs=8.77n Cjo=5.08n M=0.35 Is=34p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=6.5m Qg=57n)
.model IPP075N15N3 VDMOS(Rg=2.3 Vto=4.4 Rd=4.31m Rs=878u Rb=1.28m Kp=150 Lambda=0.02
Cgdmin=19p Cgdmax=0.82n A=0.5 Cgs=5.46n Cjo=8.18n M=0.4 Is=207.3p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=7.5m Qg=70n)
.model IPP076N12N3 VDMOS(Rg=1.5 Vto=4.15 Rd=4.3m Rs=705u Rb=1.83m Kp=105.8 Lambda=0.03
Cgdmin=27p Cgdmax=1.61n A=0.3 Cgs=4.9n Cjo=3.66n M=0.35 Is=24.5p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=7.6m Qg=75n)
.model IPP08CN10L VDMOS(Rg=1.5 Vto=2.9 Rd=5.34m Rs=705u Rb=1.99m Kp=332.8 Lambda=0.03
Cgdmin=27p Cgdmax=1.61n A=0.3 Cgs=6.32n Cjo=3.66n M=0.35 Is=24.5p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=8.5m Qg=41n)
.model IPP110N20N3 VDMOS(Rg=2.3 Vto=3.7 Rd=8.17m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.45 Is=50.7p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=11m Qg=65n)
.model IPP111N15N3 VDMOS(Rg=2 Vto=4.4 Rd=7.06m Rs=609u Rb=1.29m Kp=88.6 Lambda=0.02
Cgdmin=11p Cgdmax=0.48n A=0.5 Cgs=3.22n Cjo=4.83n M=0.4 Is=122.4p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=11.1m Qg=41n)
.model IPP114N12N3 VDMOS(Rg=1.5 Vto=4.15 Rd=6.49m Rs=958u Rb=2.69m Kp=68.1 Lambda=0.03
Cgdmin=17p Cgdmax=1.04n A=0.3 Cgs=3.16n Cjo=2.36n M=0.35 Is=15.8p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=11.4m Qg=48n)
.model IPP12CN10L VDMOS(Rg=1.5 Vto=2.9 Rd=8.1m Rs=958u Rb=2.95m Kp=214.4 Lambda=0.03
Cgdmin=17p Cgdmax=1.04n A=0.3 Cgs=4.07n Cjo=2.36n M=0.35 Is=15.8p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=12.9m Qg=26n)
.model IPP147N12N3 VDMOS(Rg=1.2 Vto=4.15 Rd=8.63m Rs=908u Rb=3.25m Kp=50.5 Lambda=0.03
Cgdmin=13p Cgdmax=0.77n A=0.3 Cgs=2.34n Cjo=1.75n M=0.35 Is=11.7p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=14.7m Qg=36n)
.model IPP16CN10L VDMOS(Rg=1.2 Vto=2.9 Rd=10.8m Rs=908u Rb=3.59m Kp=158.9 Lambda=0.03
Cgdmin=13p Cgdmax=0.77n A=0.3 Cgs=3.02n Cjo=1.75n M=0.35 Is=11.7p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=16m Qg=20n)
.model IPP200N15N3 VDMOS(Rg=2.4 Vto=4.4 Rd=12.27m Rs=1.05m Rb=2.26m Kp=49.8 Lambda=0.02
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.81n Cjo=2.72n M=0.4 Is=68.9p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=20m Qg=23n)
.model IPP200N25N3 VDMOS(Rg=2.3 Vto=3.7 Rd=15.99m Rs=878u Rb=2.01m Kp=146.6 Lambda=0.015
Cgdmin=19p Cgdmax=0.8n A=0.5 Cgs=5.33n Cjo=8n M=0.48 Is=50.7p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=20m Qg=64n)
.model IPP320N20N3 VDMOS(Rg=2.4 Vto=3.7 Rd=23.91m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.45 Is=16.8p VJ=0.9 N=1.12 TT=120n
mfg=Infineon Vds=200 Ron=32m Qg=22n)
.model IPP530N15N3 VDMOS(Rg=2.1 Vto=4.4 Rd=32.88m Rs=1.86m Rb=5.17m Kp=18.3 Lambda=0.02
Cgdmin=2p Cgdmax=0.1n A=0.5 Cgs=0.66n Cjo=1n M=0.4 Is=25.2p VJ=0.9 N=1.185 TT=100n
mfg=Infineon Vds=150 Ron=53m Qg=9n)
.model IPP600N25N3 VDMOS(Rg=2.4 Vto=3.7 Rd=47.47m Rs=1.05m Rb=4.44m Kp=48.7 Lambda=0.015
Cgdmin=6p Cgdmax=0.27n A=0.5 Cgs=1.77n Cjo=2.66n M=0.48 Is=16.8p VJ=0.9 N=1.12 TT=150n
mfg=Infineon Vds=250 Ron=60m Qg=21n)
.model IPS110N12N3 VDMOS(Rg=1.5 Vto=4.15 Rd=6.39m Rs=791u Rb=2.52m Kp=68.1 Lambda=0.03
Cgdmin=17p Cgdmax=1.04n A=0.3 Cgs=3.16n Cjo=2.36n M=0.35 Is=15.8p VJ=0.8 N=1.11 TT=90n
mfg=Infineon Vds=120 Ron=11m Qg=48n)
.model IPS12CN10L VDMOS(Rg=1.5 Vto=2.9 Rd=8m Rs=791u Rb=2.78m Kp=214.4 Lambda=0.03
Cgdmin=17p Cgdmax=1.04n A=0.3 Cgs=4.07n Cjo=2.36n M=0.35 Is=15.8p VJ=0.8 N=1.07 TT=90n
mfg=Infineon Vds=100 Ron=12.4m Qg=26n)

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.model IRF1010E VDMOS(Rg=2.0 Vto=3.4 Rd=2.5m Rs=0.10m Rb=3.75m Kp=28 Cgdmax=4.5n
Cgdmin=.15n Cgs=3.25n Cjo=1.8n Is=3p tt=73n mfg=International_Rectifier Vds=60 Ron=8.1m Qg=90n)
.model IRF1010EZ VDMOS(Rg=2.0 Vto=4.0 Rd=1.471m Rs=0m Rb=3.25m Kp=32 Cgdmax=2.53n
Cgdmin=.15n Cgs=2.5n Cjo=0.8n Is=3p tt=41n mfg=International_Rectifier Vds=60 Ron=6.8m Qg=58n)
.model IRF1010N VDMOS(Rg=1.6 Vto=3.4 Rd=2.3m Rs=0.10m Rb=3.75m Kp=27 Cgdmax=4.0n
Cgdmin=.275n Cgs=1.95n Cjo=1.6n Is=3p tt=69n mfg=International_Rectifier Vds=55 Ron=8.1m Qg=80n)
.model IRF1404 VDMOS(Rg=2.0 Vto=4.0 Rd=0.9m Rs=0.0m Rb=4.4m Kp=65 Cgdmax=5.5n
Cgdmin=0.50n Cgs=4.98n Cjo=4.2n Is=5p tt=78n mfg=International_Rectifier Vds=40 Ron=3.5m Qg=131n)
.model IRF1404Z VDMOS(Rg=2.0 Vto=4.0 Rd=0.15m Rs=0.0m Rb=1.6m Kp=65 Cgdmax=6.3n
Cgdmin=0.130n Cgs=5n Cjo=1.4n Is=10p tt=28n mfg=International_Rectifier Vds=40 Ron=2.7m Qg=100n)
.model IRF1407 VDMOS(Rg=7.8 Vto=4.0 Rd=4.0m Rs=0.10m Rb=3.5m Kp=65 Cgdmax=7n
Cgdmin=0.20n Cgs=7.3n Cjo=2.5n Is=10p tt=110n mfg=International_Rectifier Vds=75 Ron=6.7m
Qg=160n)
.model IRF1503 VDMOS(Rg=2.8 Vto=4 Rd=0.68m Rs=0.0m Rb=1.9m Kp=88 Cgdmax=5.6n
Cgdmin=0.20n Cgs=7.0n Cjo=5.3n Is=10p tt=71n mfg=International_Rectifier Vds=30 Ron=2.6m Qg=130n)
.model IRF2204 VDMOS(Rg=2.7 Vto=3.6 Rd=1.1m Rs=0.10m Rb=2m Kp=85 Cgdmax=6.25n
Cgdmin=0.5n Cgs=5.1n Cjo=4.5n Is=9p tt=68n mfg=International_Rectifier Vds=40 Ron=3.0m Qg=130n)
.model IRF2204S VDMOS(Rg=2.7 Vto=3.6 Rd=1.1m Rs=0.10m Rb=2m Kp=85 Cgdmax=6.25n
Cgdmin=0.5n Cgs=5.1n Cjo=4.5n Is=9p tt=68n mfg=International_Rectifier Vds=40 Ron=3.0m Qg=130n)
.model IRF2804 VDMOS(Rg=2.8 Vto=4 Rd=0.015m Rs=0.0m Rb=1.8m Kp=94 Cgdmax=6.9n
Cgdmin=0.8n Cgs=6.1n Cjo=2.9n Is=10p tt=56n mfg=International_Rectifier Vds=40 Ron=1.8m Qg=160n)
.model IRF2804S VDMOS(Rg=2.8 Vto=4 Rd=0.01m Rs=0.0m Rb=1.8m Kp=110 Cgdmax=6.9n
Cgdmin=0.8n Cgs=6.1n Cjo=2.9n Is=10p tt=56n mfg=International_Rectifier Vds=40 Ron=1.5m Qg=160n)
.model IRFHS8242 VDMOS(Rg=1.9 Vto=2.3 Rd=3.5m Rs=0.0m Rb=3.05m Kp=19 Cgdmax=0.34n
Cgdmin=80p Cgs=0.45n Cjo=0.19n Is=6.5p mfg=International_Rectifier Vds=25 Ron=10m Qg=10.4n)
.model IRFHS8342 VDMOS(Rg=1.9 Vto=2.3 Rd=7.6m Rs=0.0m Rb=2.85m Kp=24 Cgdmax=0.20n
Cgdmin=60p Cgs=0.4n Cjo=0.25n Is=1.25p mfg=International_Rectifier Vds=25 Ron=13m Qg=8.7n)
.model IRFML8244 VDMOS(Rg=1.6 Vto=2.3 Rd=3.7m Rs=0.0m Rb=7.5m Kp=8 Cgdmax=0.20n
Cgdmin=25p Cgs=0.26n Cjo=0.15n Is=0.65p mfg=International_Rectifier Vds=30 Ron=20m Qg=5.4n)
.model IRFZ44N VDMOS(Rg=1.94 Vto=4 Rd=5.0m Rs=0.0m Rb=6.8m Kp=19 Cgdmax=2.0n
Cgdmin=0.08n Cgs=1.4n Cjo=0.9n Is=1.5p tt=63n mfg=International_Rectifier Vds=55 Ron=13.9m
Qg=63n)
.model IRFZ44V VDMOS(Rg=1.97 Vto=4 Rd=4.5m Rs=0.0m Rb=6.0m Kp=19 Cgdmax=3.2n
Cgdmin=0.05n Cgs=1.6n Cjo=0.9n Is=0.5p tt=70n mfg=International_Rectifier Vds=55 Ron=13.9m
Qg=67n)
.model IRFZ46N VDMOS(Rg=2.0 Vto=4 Rd=3.8m Rs=0.0m Rb=6.0m Kp=19 Cgdmax=3n Cgdmin=0.01n
Cgs=1.20n Cjo=0.9n Is=0.5p tt=67n mfg=International_Rectifier Vds=55 Ron=12.8m Qg=72n)
.model IRFZ46NL VDMOS(Rg=2.0 Vto=4 Rd=0.5m Rs=0.0m Rb=9.0m Kp=14 Cgdmax=3n Cgdmin=0.01n
Cgs=1.20n Cjo=0.9n Is=350n tt=67n mfg=International_Rectifier Vds=55 Ron=12.8m Qg=72n)
.model IRFZ46NS VDMOS(Rg=2.0 Vto=4 Rd=0.5m Rs=0.0m Rb=9.0m Kp=14 Cgdmax=3n Cgdmin=0.01n
Cgs=1.20n Cjo=0.9n Is=350n tt=67n mfg=International_Rectifier Vds=55 Ron=12.8m Qg=72n)
.model IRLH5036 VDMOS(Rg=1.2 Vto=2.48 Rd=2.82m Rs=0.0m Rb=1.3m Kp=150 Cgdmax=4.0n
Cgdmin=0.20n Cgs=3.8n Cjo=1.7n Is=42p tt=28n mfg=International_Rectifier Vds=60 Ron=3.7m Qg=90n)
.model IRFB4410Z VDMOS(Rg=0.7 Vto=4 Rd=6m Rs=0.0m Rb=3.0m Kp=150 Cgdmax=3.75n
Cgdmin=0.1n Cgs=3.3n Cjo=1.7n Is=10p tt=38n mfg=International_Rectifier Vds=100 Ron=7.2m Qg=83n)
.model IRFH5053 VDMOS(Rg=0.8 Vto=4.5 Rd=6.8m Rs=0.0m Rb=3.0m Kp=24 Cgdmax=0.55n
Cgdmin=.12n Cgs=1n Cjo=1.2n Is=10p tt=31n mfg=International_Rectifier Vds=100 Ron=14.4m Qg=24n)
.model IRFH5215 VDMOS(Rg=2.3 Vto=5 Rd=35m Rs=0m Rb=1.25m Kp=20 Cgdmax=0.8n Cgdmin=0.02n
Cgs=1n Cjo=0.75n Is=1.3p tt=40n mfg=International_Rectifier Vds=150 Ron=45.5m Qg=20n)
.model IRFH5220 VDMOS(Rg=2.3 Vto=5 Rd=50m Rs=0m Rb=1.0m Kp=7 Cgdmax=0.8n Cgdmin=0.02n
Cgs=1n Cjo=0.7n Is=0.2p tt=39n mfg=International_Rectifier Vds=200 Ron=80m Qg=20n)
.model IRFH7914 VDMOS(Rg=1.3 Vto=2.2 Rd=3.99m Rs=0.0m Rb=5.8m Kp=37 Cgdmax=0.45n
Cgdmin=120p Cgs=1.0n Cjo=0.35n Is=1.5p mfg=International_Rectifier Vds=30 Ron=7.5m Qg=8.3n)
.model IRFH7921 VDMOS(Rg=1.4 Vto=2.2 Rd=3.85m Rs=0.0m Rb=5.8m Kp=40 Cgdmax=0.45n
Cgdmin=140p Cgs=0.99n Cjo=0.2n Is=1.5p mfg=International_Rectifier Vds=30 Ron=7.1m Qg=9.3n)
.model IRFH7932 VDMOS(Rg=0.7 Vto=2.2 Rd=1.5m Rs=0.0m Rb=3m Kp=125 Cgdmax=2.5n
Cgdmin=130p Cgs=3.5n Cjo=1.2n Is=9p mfg=International_Rectifier Vds=30 Ron=2.5m Qg=34n)

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.model IRFH7936 VDMOS(Rg=1.5 Vto=2.2 Rd=1.9m Rs=0.0m Rb=4.5m Kp=57 Cgdmax=1.3n
Cgdmin=120p Cgs=1.8n Cjo=0.6n Is=2p mfg=International_Rectifier Vds=30 Ron=4.1m Qg=17n)
.model IRFP054V VDMOS(Rg=2.0 Vto=4 Rd=2.5m Rs=0.0m Rb=3.0m Kp=44 Cgdmax=5n Cgdmin=0.21n
Cgs=4.0n Cjo=2.2n Is=10p tt=78n mfg=International_Rectifier Vds=60 Ron=9m Qg=170n)
.model IRFP250N VDMOS(Rg=1.44 Vto=4.0 Rd=47m Rs=0m Rb=5.6m Kp=13 Cgdmax=3.9n
Cgdmin=0.10n Cgs=1.9n Cjo=1.25n Is=5p tt=186n mfg=International_Rectifier Vds=200 Ron=75m
Qg=123n)
.model IRFR120Z VDMOS(Rg=3.65 Vto=4.0 Rd=50m Rs=0m Rb=12m Kp=1.75 Cgdmax=4.2n
Cgdmin=0.050n Cgs=2.3n Cjo=65P Is=0.2p tt=24n mfg=International_Rectifier Vds=200 Ron=150m
Qg=6.9n)
.model IRFR2307Z VDMOS(Rg=0.93 Vto=3.8 Rd=5.3m Rs=0.0m Rb=3.3m Kp=22 Cgdmax=2.8n
Cgdmin=0.01n Cgs=2.7n Cjo=0.6n Is=5p tt=31n mfg=International_Rectifier Vds=75 Ron=12.8m Qg=50n)
.model IRFR2607Z VDMOS(Rg=1.74 Vto=4 Rd=8m Rs=0.0m Rb=5.0m Kp=18.75 Cgdmax=1.8n
Cgdmin=0.05n Cgs=1.32n Cjo=0.22n Is=5p tt=30n mfg=International_Rectifier Vds=75 Ron=17.6m
Qg=34n)
.model IRFR2905Z VDMOS(Rg=1.3 Vto=4 Rd=3.4m Rs=0.0m Rb=3.9m Kp=22 Cgdmax=1.8n
Cgdmin=0.05n Cgs=1.2n Cjo=0.57n Is=5p tt=23n mfg=International_Rectifier Vds=55 Ron=11.1m Qg=29n)
.model IRFZ46Z VDMOS(Rg=0.593 Vto=4 Rd=3.9m Rs=0.0m Rb=4.5m Kp=25 Cgdmax=1.8n
Cgdmin=0.05n Cgs=1.1n Cjo=0.42n Is=5p tt=21n mfg=International_Rectifier Vds=55 Ron=10.9m Qg=31n)
.model IRFZ48N VDMOS(Rg=2 Vto=4 Rd=3.3m Rs=0.0m Rb=5.0m Kp=22 Cgdmax=2.5n Cgdmin=0.1n
Cgs=2.0n Cjo=1.25n Is=0.23p tt=68n mfg=International_Rectifier Vds=55 Ron=14m Qg=81n)
.model IRFZ48Z VDMOS(Rg=1.77 Vto=4 Rd=1.85m Rs=0.0m Rb=3.75m Kp=25 Cgdmax=2.1n
Cgdmin=0.05n Cgs=1.8n Cjo=0.55n Is=2.5p tt=20n mfg=International_Rectifier Vds=55 Ron=8.6m
Qg=43n)
.model IRFH5007 VDMOS(Rg=1.2 Vto=3.65 Rd=3.7m Rs=0.10m Rb=1.20m Kp=121 Cgdmax=2.5n
Cgdmin=0.24n Cgs=2.7n Cjo=1.5n Is=9p tt=31n mfg=International_Rectifier Vds=75 Ron=5.1m Qg=65n)
.model IRFH5110 VDMOS(Rg=1.5 Vto=3.65 Rd=6.9m Rs=0.0m Rb=1.8m Kp=46 Cgdmax=2.3n
Cgdmin=0.05n Cgs=2n Cjo=1.3n Is=60p tt=34n mfg=International_Rectifier Vds=100 Ron=10.3m Qg=48n)
.model IRFH5204 VDMOS(Rg=1.7 Vto=4 Rd=0.01m Rs=0.10m Rb=1.5m Kp=45 Cgdmax=2.10n
Cgdmin=0.3n Cgs=1.2n Cjo=1.2n Is=20p tt=30n mfg=International_Rectifier Vds=40 Ron=3.6m Qg=42n)
.model IRFH6200 VDMOS(Rg=1.3 Vto=1 Rd=0.25m Rs=0.1m Rb=1m Kp=600 Cgdmax=13n
Cgdmin=3.50n Cgs=11n Cjo=2n Is=650p mfg=International_Rectifier Vds=20 Ron=0.8m Qg=155n)
.model IRLHM620 VDMOS(Rg=2.6 Vto=1 Rd=0.15m Rs=0.1m Rb=2.5m Kp=160 Cgdmax=4n
Cgdmin=2.5n Cgs=1.75n Cjo=0.8n Is=700p mfg=International_Rectifier Vds=20 Ron=2m Qg=52n)
.model IRLHM630 VDMOS(Rg=2.6 Vto=1 Rd=1.3m Rs=0.1m Rb=2.5m Kp=200 Cgdmax=3.5n
Cgdmin=0.55n Cgs=2.0n Cjo=0.5n Is=700p mfg=International_Rectifier Vds=30 Ron=2.8m Qg=41n)
.model IRLHS6242 VDMOS(Rg=2.1 Vto=1.0 Rd=4m Rs=0.0m Rb=4m Kp=53 Cgdmax=2.2n Cgdmin=20p
Cgs=0.55n Cjo=0.2n Is=33p mfg=International_Rectifier Vds=20 Ron=9.4m Qg=14n)
.model IRLHS6342 VDMOS(Rg=2.1 Vto=0.95 Rd=7.25m Rs=0.0m Rb=4m Kp=60 Cgdmax=2.0n
Cgdmin=20p Cgs=0.25n Cjo=0.15n Is=220p mfg=International_Rectifier Vds=30 Ron=12m Qg=11n)
.model IRLHS6376 VDMOS(Rg=4.6 Vto=0.95 Rd=25m Rs=0.0m Rb=23m Kp=12.5 Cgdmax=0.35n
Cgdmin=50p Cgs=0.025n Cjo=65Pn Is=10p mfg=International_Rectifier Vds=30 Ron=48m Qg=2.8n)
.model IRLML6344 VDMOS(Rg=1.7 Vto=0.95 Rd=12m Rs=0.0m Rb=16m Kp=28 Cgdmax=1n
Cgdmin=20p Cgs=0.15n Cjo=0.10n Is=22p mfg=International_Rectifier Vds=30 Ron=22m Qg=6.8n)
.model IRLML6346 VDMOS(Rg=3.9 Vto=0.95 Rd=24m Rs=0.0m Rb=22m Kp=13 Cgdmax=0.25n
Cgdmin=50p Cgs=0.02n Cjo=50p Is=10p mfg=International_Rectifier Vds=30 Ron=48m Qg=2.9n)
.model IRLML6246 VDMOS(Rg=4 Vto=0.95 Rd=7m Rs=0.0m Rb=16m Kp=12 Cgdmax=0.6n Cgdmin=40p
Cgs=0.07n Cjo=70p Is=2p mfg=International_Rectifier Vds=20 Ron=30m Qg=3.5n)
.MODEL CSD25401Q3 VDMOS(KP=50 RS=0.001 RD=0.001 RG=0.5 VTO=-0.85 LAMBDA=0.001
CGDMAX=492p CGDMIN=127p CGS=1020p TT=25n a=0.13 IS=1.00E-13 N=1 RB=0.002 m=0.212 Vj=0.1
Cjo=100p PCHAN)
.model IRFHM830 VDMOS(Rg=2.5 Vto=2.4 Rd=1.5m Rs=0.0m Rb=1.75m Kp=86 Cgdmax=1n
Cgdmin=200p Cgs=1.5n Cjo=0.82n Is=100p mfg=International_Rectifier Vds=30 Ron=3.0m Qg=31n)
.model IRFHM830D VDMOS(Rg=1.1 Vto=2.4 Rd=1.65m Rs=0.0m Rb=2.5m Kp=75 Cgdmax=0.85n
Cgdmin=180p Cgs=1.2n Cjo=2.85n Is=225n mfg=International_Rectifier Vds=30 Ron=3.4m Qg=27n)
.model IRFHM831 VDMOS(Rg=0.5 Vto=2.4 Rd=4.05m Rs=0.0m Rb=3.0m Kp=52 Cgdmax=0.6n
Cgdmin=55p Cgs=0.75n Cjo=0.35n Is=9p mfg=International_Rectifier Vds=30 Ron=6.6m Qg=16n)

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.model IRFH3702 VDMOS(Rg=2.2 Vto=2.35 Rd=3.7m Rs=0.0m Rb=3.0m Kp=68 Cgdmax=0.75n
Cgdmin=60p Cgs=1n Cjo=0.56n Is=4p mfg=International_Rectifier Vds=30 Ron=5.7m Qg=22n)
.model IRFH3707 VDMOS(Rg=2.0 Vto=2.4 Rd=4.5m Rs=0.0m Rb=4m Kp=27 Cgdmax=0.50n
Cgdmin=45p Cgs=0.5n Cjo=0.28n Is=4p mfg=International_Rectifier Vds=30 Ron=9.4m Qg=12n)
.model IRFH5207 VDMOS(Rg=1.7 Vto=3.8 Rd=3.65m Rs=0.0m Rb=1.5m Kp=37 Cgdmax=1.95n
Cgdmin=55p Cgs=1.55n Cjo=1.2n Is=13p mfg=International_Rectifier Vds=75 Ron=8.0m Qg=39n)
.model IRFH5406 VDMOS(Rg=1.1 Vto=3.65 Rd=1.4m Rs=0.0m Rb=3.2m Kp=16 Cgdmax=1.25n
Cgdmin=60p Cgs=0.75n Cjo=0.55n Is=100p mfg=International_Rectifier Vds=60 Ron=11.4m Qg=23n)
.model IRFH5104 VDMOS(Rg=1.4 Vto=3.8 Rd=0.01m Rs=0.10m Rb=1.2m Kp=50 Cgdmax=3.4n
Cgdmin=0.25n Cgs=1.5n Cjo=1.5n Is=13p mfg=International_Rectifier Vds=40 Ron=2.9m Qg=53n)
.MODEL SUM110P04-05 VDMOS(KP=80 RS=0.002 RD=0.001 RG=3.0 VTO=-3.3 LAMBDA=0.05
CGDMAX=7n CGDMIN=800p CGS=9n TT=100n a=0.55 IS=1.5E-08 N=1.35 RB=0.001 m=0.774 Vj=1.59
Cjo=3nF PCHAN)
.model Si7137DP VDMOS(pchan Rg=2 Rd=1.4m Rs=0 Vto=-1.2 Kp=160 lambda=.06 Cgdmax=7n
Cgdmin=1n Cgs=30n Cjo=3n Is=30p Rb=1.5m mtriode=3.3 mfg=Siliconix Vds=-20 Ron=2m Qg=188n)
.model IRFS4010 VDMOS(Rg=2 Vto=3.9 Rd=2.05m Rs=0.0m Rb=1.6m Kp=89 Cgdmax=6.52n
Cgdmin=.45n Cgs=4.51n Cjo=3.7n Is=200p tt=72n mfg=International_Rectifier Vds=100 Ron=3.9m
Qg=143n)
.model IRF6201 VDMOS(Rg=1.5 Vto=1.05 Rd=0.85m Rs=0.1m Rb=1.75m Kp=300 Cgdmax=18n
Cgdmin=2n Cgs=6.6n Cjo=1.5n Is=100p mfg=International_Rectifier Vds=20 Ron=1.9m Qg=130n)
.model IRLML6244 VDMOS(Rg=1.7 Vto=1 Rd=5.5m Rs=0.0m Rb=10m Kp=27 Cgdmax=1.5n
Cgdmin=100p Cgs=0.27n Cjo=0.1n Is=20p mfg=International_Rectifier Vds=20 Ron=16m Qg=8.9n)
.model IRF2805 VDMOS(Rg=2 Vto=3.9 Rd=1.95m Rs=0.0m Rb=2m Kp=85 Cgdmax=6.52n Cgdmin=.45n
Cgs=6.0n Cjo=3.2n Is=5p tt=80n mfg=International_Rectifier Vds=55 Ron=3.9m Qg=150n)
.model IRF2805S VDMOS(Rg=2 Vto=3.9 Rd=1.95m Rs=0.0m Rb=2m Kp=85 Cgdmax=6.52n Cgdmin=.45n
Cgs=6.0n Cjo=3.2n Is=5p mfg=International_Rectifier Vds=55 Ron=3.9m Qg=2.6n)
.model IRLML0040 VDMOS(Rg=1.1 Vto=2.45 Rd=0.1m Rs=0.0m Rb=12m Kp=11 Cgdmax=0.27n
Cgdmin=35p Cgs=0.12n Cjo=90p Is=1.5p mfg=International_Rectifier Vds=40 Ron=44m Qg=2.9n)
.model IRF2807 VDMOS(Rg=1.45 Vto=3.5 Rd=6.75m Rs=0.0m Rb=3.9m Kp=43 Cgdmax=4.0n
Cgdmin=0.25n Cgs=3.8n Cjo=2.1n Is=4p mfg=International_Rectifier Vds=75 Ron=13m Qg=160n)
.model IRF2807Z VDMOS(Rg=1.4 Vto=3.45 Rd=2.2m Rs=0.0m Rb=2.8m Kp=29 Cgdmax=3.0n
Cgdmin=0.25n Cgs=3.0n Cjo=0.8n Is=10p mfg=International_Rectifier Vds=75 Ron=7.4m Qg=71n)
.model IRF2903ZS VDMOS(Rg=1.4 Vto=3.95 Rd=0.1m Rs=0.10m Rb=1.4m Kp=95 Cgdmax=6.25n
Cgdmin=1.5n Cgs=7n Cjo=2.7n Is=420p mfg=International_Rectifier Vds=30 Ron=1.9m Qg=160n)
.model IRF2907Z VDMOS(Rg=2.86 Vto=3.9 Rd=2.1m Rs=0.0m Rb=1.75m Kp=125 Cgdmax=7.5n
Cgdmin=.35n Cgs=8.0n Cjo=1.9n Is=40p mfg=International_Rectifier Vds=75 Ron=3.5m Qg=180n)
.model SiR158DP VDMOS(Rg=1 Vto=2.3 Rd=.6m Rs=.5m Rb=.5m Kp=250 mtriode=2 Lambda=.08
Cgdmin=300p Cgdmax=3n Cgs=4n Cjo=3n Is=200p N=1.2 mfg=Siliconix Vds=30 Ron=2.3m Qg=87n)
.model FDB8030L VDMOS(Rg=1.5 Vto=2 Rd=2.5m Rs=0 Rb=5.6m Kp=250 mtriode=2 Lambda=.001
Cgdmin=1n Cgdmax=9500p Cgs=8850p Cjo=5900p Is=.11n N=1.128 mfg=Fairchild Vds=30 Ron=4m
Qg=120n)
.model RJK0651DPB VDMOS(Rg=1 Vto=2.2 Rd=7m Rs=0 Rb=12m Kp=110 mtriode=1 Lambda=.08
Cgdmin=50p Cgdmax=500p Cgs=2.5n Cjo=1n Is=200p N=1.2 mfg=Renesas Vds=60 Ron=13m Qg=15n)
.model IRF9640 VDMOS(pchan Rg=3 Vto=-3.5 Rd=.15 Rs=.15 Rb=.15 Kp=8 lambda=.01 mtriode=.5
Cgdmax=1.5n Cgdmin=.07n Cgs=1n Cjo=1n Is=38p mfg=International_Rectifier Vds=-200 Ron=.5
Qg=44n)
.model 2N7002 VDMOS(Rg=3 Vto=1.6 Rd=0 Rs=.75 Rb=.14 Kp=.17 mtriode=1.25 Cgdmax=80p
Cgdmin=12p Cgs=50p Cjo=50p Is=.04p mfg=Fairchild Vds=60 Ron=2 Qg=1.5n)
.model 2N7000 VDMOS(Rg=3 Vto=1.6 Rd=0 Rs=.75 Rb=.14 Kp=.17 mtriode=1.25 Cgdmax=80p
Cgdmin=12p Cgs=50p Cjo=50p Is=.04p mfg=Fairchild Vds=60 Ron=2 Qg=1.5n)
.model FDMC8462 VDMOS(Rg=1 Vto=2.6 Rd=5m Rs=0 Rb=2m Kp=100 mtriode=2 Lambda=.08
Cgdmin=150p Cgdmax=800p Cgs=1.7n Cjo=1n Is=200p N=1.2 mfg=Fairchild Vds=40 Ron=7m Qg=15n)
.model FDB33N25 VDMOS(Rg=3 Rd=40m Rs=27m Vto=5.35 Kp=35 lambda=.05 Cgdmax=1.1n
Cgdmin=25p Cgs=1.7n Cjo=800p Is=7.94p Rb=7m mfg=Fairchild Vds=250 Ron=94m Qg=37n)
.MODEL 2SJ162 PMOS (VTO=-842.193M KP=20U L=2U W=21.3317M GAMMA=0 PHI=600M
LAMBDA=20.7067M RD=837.199M CBD=2.96862N IS=10F CGSO=1.13517N CGDO=1.13517N TPG=1
UO=600 RG=50 RDS=1MEG )

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.MODEL 2SK1058 NMOS (VTO=403.969M KP=20U L=2U W=29.7482M GAMMA=0 PHI=600M
LAMBDA=184.988F RD=60.8251M CBD=2.56138N IS=10F CGSO=1.13517N CGDO=1.13517N TPG=1
UO=600 RG=50 RDS=1MEG )
.model RJK0330DPB VDMOS(Rg=.4 Vto=2.29 Rd=0m Rs=0m Rb=1.3m Kp=70 Lambda=.11
Cgdmax=.96n Cgdmin=.05n Cgs=4300p Cjo=800p Is=48p mfg=Renesas Vds=30 Ron=2.1m Qg=27n
mtriode=.5 )
.model RJK0305DPBx VDMOS(Rg=.6 Vto=1.95 Rd=0m Rs=0m Rb=1.3m Kp=23 Lambda=.07
Cgdmax=.96n Cgdmin=.05n Cgs=1250p Cjo=530p Is=48p mfg=Renesas Vds=30 Ron=6.7m Qg=8n
mtriode=.65 L=.75)
.MODEL DI_BSS138 NMOS LEVEL=1 VTO=1.2 KP=7.50m GAMMA=1.49 PHI=.75 LAMBDA=1.25m
RD=0.196 RS=0.196 IS=100f PB=0.800 MJ=0.460 CBD=18.4p CBS=22.0p CGSO=28.8n CGDO=24.0n
CGBO=247n L=100U W=100U
.MODEL NDS351AN_ VDMOS(KP=4 RS=0.0012 RD=8m RG=1.6 VTO=2.3 LAMBDA=0.001 IS=1.4e-13
RB=40m CGDMAX=73p CGDMIN=13p CGS=135p TT=16n a=1.15 m=0.374 Vj=0.69 Cjo=70pF
mfg=Fairchild Vds=30 Ron=250m Qg=1.8n)
.MODEL FDN359AN_ VDMOS(KP=8. RS=2m RD=16m RG=0.1 VTO=1.8 LAMBDA=1m IS=1.4e-13
RB=40m CGDMAX=259p CGDMIN=30p CGS=462p a=1.31 TT=100n m=0.307 Vj=0.26 Cjo=230pF
mfg=Fairchild Vds=30 Ron=60m Qg=7n)
.model STP14NF12 vdmoss (Rg=5 Rd=90m Rs=70m Vto=3.5 Kp=3 Cgdmax=200p Cgdmin=20p Cgs=420p
Cjo=60p Is=10p Rb=140m)
.model TN2404K VDMOS(Rds=200Meg Rg=3 Vto=1.8 Rd=2.1 Rs=0.1 Kp=3.5 Lambda=10m
CGDMAX=128p CGDMIN=5p CGS=203p TT=60n a=3.83 m=0.39 Vj=0.16 Cjo=50pF IS=7E-14 RB=0.35
bv=240 ibv=1u mfg=Vishay Vds=240 Ron=4 Qg=8n)
.model TN2404KL VDMOS(Rds=200Meg Rg=3 Vto=1.8 Rd=2.1 Rs=0.1 Kp=3.5 Lambda=10m
CGDMAX=128p CGDMIN=5p CGS=203p TT=720n a=3.83 m=0.39 Vj=0.16 Cjo=50pF IS=7E-14 RB=0.35
bv=240 ibv=1u mfg=Vishay Vds=240 Ron=4 Qg=8n)
.model BS107KL VDMOS(Rds=200Meg Rg=3 Vto=1.8 Rd=2.1 Rs=0.1 Kp=3.5 Lambda=10m
CGDMAX=128p CGDMIN=5p CGS=203p TT=720n a=3.83 m=0.39 Vj=0.16 Cjo=50pF IS=7E-14 RB=0.35
bv=240 ibv=1u mfg=Vishay Vds=240 Ron=4 Qg=8n)
.model AON6242 VDMOS(Rg=2 Vto=2.7 Rb=1m lambda=.1 Kp=280 Rd=2.6m mtriode=2 Cgdmax=1n
Cgdmin=50p Cgs=5n Cjo=4n Is=2p mfg=Alpha_ & _Omega Vds=60 Ron=4m Qg=23n)
.model 2SJ201C VDMOS(pchan Vto=-1.5 Kp=4.5 Lambda=0.002 Rs=0.04 Rd=0.1 Rds=1e7
Cgdmax=3100p Cgdmin=55p a=0.34 Cgs=1500p Cjo=2800p m=0.68 VJ=2.5 IS=4.0E-06 N=2.4)
.model 2SK1530C VDMOS(nchan Vto=1.55 Kp=9.0 Lambda=0.002 Rs=0.025 Rd=0.1 Rds=1e7
Cgdmax=1500p Cgdmin=15p a=0.33 Cgs=880p Cjo=1260p m=0.68 VJ=2.5 IS=4.0E-06 N=2.4)
.model irfp240C VDMOS(nchan Vto=4.0 Kp=4.8 Lambda=0.0032 Rs=0.01 Rd=0.1 Rds=1e7
Cgdmax=2600p Cgdmin=10p a=0.35 Cgs=1250p Cjo=3000p m=0.75 VJ=2.5 IS=4.0E-06 N=2.4)
.model irfp9240C VDMOS(pchan Vto=-3.76 Kp=9 Lambda=0.004 Rs=0.064 Rd=0.1 Rds=1e7
Cgdmax=1200p Cgdmin=15p a=0.26 Cgs=1130p Cjo=2070p m=0.68 VJ=2.5 IS=4.0E-06 N=2.4)
.model 2SJ49C VDMOS(pchan Vto=-0.08 Kp=0.6 Lambda=0.1 Rs=0.55 Rd=0.1 Rds=1e7 Cgdmax=215p
Cgdmin=10p a=0.25 Cgs=900p Cjo=1200p m=0.7 VJ=2.5 IS=4.0E-06 N=2.4)
.model 2SJ162C VDMOS(pchan Vto=-0.08 Kp=0.6 Lambda=0.1 Rs=0.55 Rd=0.1 Rds=1e7 Cgdmax=215p
Cgdmin=10p a=0.25 Cgs=900p Cjo=1200p m=0.7 VJ=2.5 IS=4.0E-06 N=2.4)
.model 2SK134C VDMOS(nchan Vto=0.02 Kp=0.85 Lambda=0.02 Rs=0.62 Rd=0.1 Rds=1e7
Cgdmax=100p Cgdmin=5p a=0.25 Cgs=600p Cjo=1080p m=0.7 VJ=2.5 IS=4.0E-06 N=2.4)
.model 2SK1056C VDMOS(nchan Vto=0.02 Kp=0.85 Lambda=0.02 Rs=0.62 Rd=0.1 Rds=1e7
Cgdmax=100p Cgdmin=5p a=0.25 Cgs=600p Cjo=1080p m=0.7 VJ=2.5 IS=4.0E-06 N=2.4)
.model RJK1051DPB VDMOS(Rg=1 Vto=2.4 Rd=10m Rs=20m Rb=2m Kp=300 mtriode=.5 Lambda=.3
Cgdmin=50p Cgdmax=850p Cgs=2n Cjo=2n Is=100p N=1.2 mfg=Renesas Vds=100 Ron=30m Qg=15n)
.model Si7113DN VDMOS(pchan Rg=3 Rd=30m Rs=75m Vto=-2.8 Kp=150 mtriode=.4 lambda=.1
Cgdmax=2n Cgdmin=75p Cgs=1.2n Cjo=2n Is=1p Rb=8m mfg=Siliconix Vds=-100 Ron=.145 Qg=16.5n)
.model SiZ300DT_1 VDMOS(Rg=2 Vto=2.6 Rb=4m lambda=.2 Kp=30 Rd=20m mtriode=2 Cgdmax=250p
Cgdmin=25p Cgs=400p Cjo=400p Is=2p mfg=Siliconix Vds=30 Ron=27m Qg=3.5n)
.model SiZ300DT_2 VDMOS(Rg=2 Vto=2.3 Rb=2.5m lambda=.15 Kp=50 Rs=5m Rd=5m mtriode=2
Cgdmax=500p Cgdmin=50p Cgs=800p Cjo=800p Is=2p mfg=Siliconix Vds=30 Ron=14m Qg=6.8n)
.model Si800DP VDMOS(Rg=2 Rd=1.65m Rs=0 Vto=1.2 Kp=220 lambda=.06 Cgdmax=3.5n
Cgdmin=500p Cgs=3.5n Cjo=3n Is=200p Rb=1.5m mtriode=3 mfg=Siliconix Vds=20 Ron=2.1m Qg=41n)

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.model Si802DP VDMOS(Rg=2 Rd=3.7m Rs=0 Vto=1.2 Kp=100 lambda=.06 Cgdmax=1n Cgdmin=200p
Cgs=2n Cjo=1n Is=50p Rb=2.5m mtriode=2.8 mfg=Siliconix Vds=20 Ron=5.7m Qg=15.5n)
.model SiR800DP VDMOS(Rg=1.2 Rd=1.65m Rs=0 Vto=1.2 Kp=220 lambda=.06 Cgdmax=3.5n
Cgdmin=500p Cgs=3.5n Cjo=3n Is=200p Rb=1.5m mtriode=3 mfg=Siliconix Vds=20 Ron=2.1m Qg=41n)
.model SiR802DP VDMOS(Rg=.75 Rd=3.7m Rs=0 Vto=1.2 Kp=100 lambda=.06 Cgdmax=1n
Cgdmin=200p Cgs=2n Cjo=1n Is=50p Rb=2.5m mtriode=2.8 mfg=Siliconix Vds=20 Ron=5.7m Qg=15.5n)
.model Si2318CDS VDMOS(Rg=3 Vto=2 Rd=16m Rs=16m Rb=15m Kp=22 lambda=.1 mtriode=2
Cgdmax=110p Cgdmin=20p Cgs=400p Cjo=400p Is=1.5p mfg=Siliconix Vds=40 Ron=51m Qg=2.9n)
.model RJK0451DPB VDMOS(Rg=.7 Vto=2.31 Rd=2m Rs=1m Rb=.25m Kp=160 lambda=.05 mtriode=.6
Cgdmax=200p Cgdmin=100p Cgs=1n Cjo=1n Is=2p mfg=Renesas Vds=40 Ron=5.5m Qg=14n)
.model FDB3682 VDMOS(Rg=3 Rd=26.8m Vto=4 subthres=.1 mtriode=1.8 Kp=18 Cgdmax=400p
Cgdmin=20p A=.5 Cgs=1.25n Cjo=1n M=.6 Is=1.8p Rb=14.2m mfg=Fairchild Vds=100 Ron=32m
Qg=18.5n)
.model Si7489DP VDMOS(Rg=3 Rd=31.2m Rs=1m Vto=-2.4 subthres=.03 mtriode=2.2 Kp=35 lambda=0.1
Cgdmax=6n Cgdmin=10p A=1 Cgs=4n cjo=200p M=.3 VJ=.9 Is=3.6p Rb=5.5m mfg=Siliconix Vds=-100
Ron=3.3m Qg=106n pchan)
.model HUFA76645 VDMOS(Rg=3 Rd=9.4m Rs=.8m Vto=2 subthres=.01 mtriode=1 Kp=128 Cgdmax=8n
Cgdmin=10p A=.6 Cgs=3n cjo=3.5n M=.55 VJ=.9 Is=3.6p Rb=2.24m mfg=Fairchild Vds=100 Ron=15m
Qg=34n)
.model SUM85N03-06P VDMOS(Rg=3 Vto=2.7 Rd=1.02m Rs=2.4m Rb=3m Kp=81 Mtriode=1.66
Cgdmax=1.3n Cgdmin=.2n Cgs=2.9n Cjo=1.4n m=.4 a=2 Vj=.7 lambda=1m Is=10p mfg=Siliconix Vds=30
Ron=4.5m Qg=48n)
.MODEL VN10KM NMOS (LEVEL=1 VTO=1.4 KP=1.55E-01 PHI=0.75 LAMBDA=2.9E-04 RD=7.60E-01
RS=7.60E-01 IS=6.46E-14 CBD=3.28E-11 CBS=3.94E-11 PB=0.80 MJ=.46 CGSO=2.40E-08
CGDO=2.00E-08 CGBO=3.36E-07 mfg=Siliconix Vds=60 Ron=4 )
.model FDMS86500DC VDMOS(Rg=3 Vto=4.9 Rd=.74m Rs=.1m Rb=.6m Kp=70 Mtriode=2.7
Cgdmax=1.4n Cgdmin=10p Cgs=5.5n Cjo=4n m=.4 a=.2 Vj=.7 lambda=110m Is=4p mfg=Fairchild Vds=60
Ron=1.9m Qg=76n)
.MODEL XP161A1355PR VDMOS(KP=21.5031 RS=0.0101 RD=0.0051 RG=1 VTO=0.85 LAMBDA=0.001
CGDMAX=1202p CGDMIN=40p CGS=280p TT=720n a=1.11 IS=20f N=1 RB=15m m=0.424 Vj=0.65
Cjo=450pF mfg=Torex Vds=60 Ron=100m Qg=5n)
.model FDMS3622SQ1 VDMOS(mtriode=2 Rg=1.4 Vto=1.58 Rd=3m Rs=.3m Rb=3.m Kp=130 Lambda=.2
Cgdmin=70p Cgdmax=.68n A=.9 Cgs=1.6n Cjo=1.3n M=0.3 Vj=.9 Is=142p N=1.1 mfg=Fairchild Vds=25
Ron=5m Qg=12n)
.model FDMS3622SQ2 VDMOS(mtriode=3 Rg=.8 Vto=1.87 Rd=.8m Rs=.08m Rb=5m Kp=280 Lambda=.5
Cgdmin=120p Cgdmax=2n A=.9 Cgs=6.3n Cjo=3.5n M=0.42 Vj=.9 Is=10u N=1.1 mfg=Fairchild Vds=25
Ron=1.1m Qg=40n)
.model Si7102DN VDMOS(mtriode=2.3 Rg=1.4 vto=.843 subthres=180m Rd=1.1m Rs=1.75m Rb=5m
Kp=350 Lambda=10m Cgdmin=800p Cgdmax=4.6n A=3 Cgs=3.4n Cjo=1.3n M=0.5 VJ=0.7 Is=2n N=1.05
TT=0 mfg=Vishay Vds=12 Ron=3.8m Qg=41n)

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