

SPICE PARAMETER
RDX120N50

by ROHM TR Div.

```
* RDX120N50 NMOSFET model
* Date: 2007/08/09
*****D G S
.SUBCKT RDX120N50 1 2 3
M1 11 22 3 3 MOS_N
C1 1 3 5p
D1 3 1 DDS
R1 1 11 RTH .330
D2 11 21 DDG
D3 22 21 DDG
R2 2 22 10
.MODEL MOS_N NMOS
+ LEVEL=3
+ L=2.0000E-6
+ W=1
+ KP=6.7904E-6
+ RS=10.000E-3
+ RD=0
+ VTO=3.4213
+ RDS=20.000E6
+ TOX=2.0000E-6
+ CGSO=1.3n
+ CGDO=16p
+ CBD=0
+ RG=0
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ ETA=100.00E-6
+ KAPPA=0
.MODEL DDS D
+ IS=6.9024E-9
+ N=1.4053
+ RS=2.5995E-3
+ IKF=4.1072
+ CJO=908.94E-12
+ M=.85643
+ VJ=6.2206
+ BV=500
+ TT=650.00E-9
.MODEL DDG D
+ CJO=2.8854E-9
+ M=1.4725
+ VJ=3.5382
+ BV=500
.MODEL RTH RES
+ TC1=0.01
+ TC2=0.00004
.ENDS RDX120N50
```