

SPICE PARAMETER
RDN050N20

by ROHM TR Div.

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* RDN050N20 NMOSFET model
* Date: 2007/08/10
*****D G S
.SUBCKT RDN050N20 1 2 3
M1 11 22 3 3 MOS_N
C1 1 3 15p
D1 3 1 DDS
R1 1 11 RTH .342
D2 11 21 DDG
D3 22 21 DDG
R2 2 22 19
.MODEL MOS_N NMOS
+ LEVEL=3
+ L=2.0000E-6
+ W=1
+ KP=1.3439E-6
+ RS=10.000E-3
+ RD=0
+ VTO=2.5096
+ RDS=8.0000E6
+ TOX=2.0000E-6
+ CGSO=400p
+ CGDO=20p
+ CBD=0
+ RG=0
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ ETA=100.00E-6
+ KAPPA=0
.MODEL DDS D
+ IS=62.569E-12
+ N=1.2083
+ RS=22.385E-3
+ IKF=.31263
+ CJO=131.80E-12
+ M=.90542
+ VJ=6.1520
+ BV=200
+ TT=135n
.MODEL DDG D
+ CJO=978.80E-12
+ M=1.0223
+ VJ=.57656
+ BV=200
.MODEL RTH RES
+ TC1=0.009
+ TC2=0.00003
.ENDS RDN050N20
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