

SPICE PARAMETER
RDN120N25

by ROHM TR Div.

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* RDN120N25 NMOSFET model
* Date: 2007/08/10
*****D G S
.SUBCKT RDN120N25 1 2 3
M1 11 22 3 3 MOS_N
C1 1 3 20p
D1 3 1 DDS
R1 1 11 RTH .112
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=7.0336E-6
+ RS=10.000E-3
+ RD=0
+ VTO=2.7676
+ RDS=10.000E6
+ TOX=2.0000E-6
+ CGSO=1.25n
+ CGDO=20p
+ CBD=0
+ RG=0
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ ETA=100.00E-6
+ KAPPA=0
.MODEL DDS D
+ IS=127.78E-12
+ N=1.1845
+ RS=6.2691E-3
+ IKF=.32123
+ CJO=675.00E-12
+ M=1
+ VJ=8
+ BV=250
+ TT=195n
.MODEL DDG D
+ CJO=4.0941E-9
+ M=1.0457
+ VJ=.62028
+ BV=250
.MODEL RTH RES
+ TC1=0.01
+ TC2=0.00002
.ENDS RDN120N25
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