

SPICE PARAMETER
R5009ANX

by ROHM TR Div.

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* R5009ANX NMOSFET model
* Date: 2008/01/25
*****D G S
.SUBCKT R5009ANX 1 2 3
M1 11 22 3 3 MOS_N
C1 1 3 15p
D1 3 1 DDS
R1 1 11 RTH .486
D2 11 21 DDG
D3 22 21 DDG
R2 2 22 30
.MODEL MOS_N NMOS
+ LEVEL=3
+ L=2.0000E-6
+ W=1
+ KP=6.1557E-6
+ RS=10.000E-3
+ RD=0
+ VTO=3.8400
+ RDS=5.0000E6
+ TOX=2.0000E-6
+ CGSO=600p
+ CGDO=5p
+ CBD=0
+ RG=0
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ ETA=100.00E-6
+ KAPPA=0
.MODEL DDS D
+ IS=3.4002E-12
+ N=1.0549
+ RS=8.4819E-3
+ IKF=.91426
+ CJO=3.4176E-9
+ M=1.4074
+ VJ=2.1585
+ BV=500
+ TT=500n
.MODEL DDG D
+ CJO=1.3892E-9
+ M=1.4436
+ VJ=1.4443
+ BV=500
.MODEL RTH RES
+ TC1=0.008
+ TC2=0.00003
.ENDS R5009ANX
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