

SPICE PARAMETER
RQA130N03

by ROHM TR Div.

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* RQA130N03 NMOSFET model
* Date: 2007/07/24
*****D G S
.SUBCKT RQA130N03 1 2 3
M1 11 22 3 3 MOS_N
C1 1 3 50p
D1 3 1 DDS
R1 1 11 RTH 3.59m
D2 11 21 DDG
D3 22 21 DDG
R2 2 22 6
.MODEL MOS_N NMOS
+ LEVEL=3
+ L=2.0000E-6
+ W=1
+ KP=178.80E-6
+ RS=4.0000E-3
+ RD=0
+ VTO=2.0087
+ RDS=30.000E6
+ TOX=2.0000E-6
+ CGSO=1200p
+ CGDO=150p
+ CBD=0
+ RG=0
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ ETA=500.00E-6
+ KAPPA=0
.MODEL DDS D
+ IS=1.4935E-12
+ N=.95692
+ RS=1.6214E-3
+ IKF=4.8623
+ CJO=451.52E-12
+ M=.41539
+ VJ=.5254
+ BV=30
+ TT=25.000E-9
.MODEL DDG D
+ CJO=829.10E-12
+ M=.91935
+ VJ=.49469
.MODEL RTH RES
+ TC1=0.012
+ TC2=0.00001
.ENDS RQA130N03
```