

SPICE PARAMETER
QS5U12

by ROHM TR Div.

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* QS5U12 NMOSFET model
* Date: 2006/09/08
* This model includes a diode between source and drain.
*****D G S
.SUBCKT QS5U12 1 2 3
M1 1 2 3 3 MOS_N
D1 3 1 DREV
.MODEL MOS_N NMOS
+ LEVEL=3
+ L=2.0000E-6
+ W=1
+ KP=31.169E-6
+ RS=10.000E-3
+ RD=40.540E-3
+ VTO=1.3234
+ RDS=1.0000E6
+ TOX=2.0000E-6
+ CGSO=241.37E-12
+ CGDO=51.970E-12
+ CBD=151.93E-12
+ MJ=1.2249
+ RG=10.285
+ N=2
+ RB=1.0000E-3
+ GAMMA=0
+ KAPPA=0
.MODEL DREV D
+ IS=1.4631E-12
+ N=1.0967
+ RS=23.917E-3
+ IKF=.3602
.ENDS QS5U12
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* D_QS5U12 D model (Schottky barrier Diode)
* Date: 2006/07/11
.MODEL D_QS5U12 D
+ IS=8.9861E-6
+ N=1.0353
+ RS=.10982
+ IKF=3.2196
+ XTI=2
+ EG=.69
+ CJO=114.54E-12
+ M=.40078
+ VJ=.3905
+ ISR=5.0228E-6
+ TT=22.937E-9
```