

SPICE PARAMETER

EMF8

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* QEMF8 NPN BJT model
* Date: 2006/11/30
.MODEL QEMF8 NPN
+ IS=130.00E-15
+ BF=394.21
+ VAF=31.700
+ IKF=2.0336
+ ISE=130.00E-15
+ NE=1.7644
+ BR=166.53
+ VAR=100
+ IKR=16.665
+ ISC=977.07E-15
+ NC=1.4276
+ NK=.73285
+ RE=.13
+ RB=5.8745
+ RC=.22758
+ CJE=43.128E-12
+ MJE=.38969
+ CJC=12.019E-12
+ MJC=.18215
+ TF=270.44E-12
+ XTF=29.534
+ VTF=38.684
+ ITF=24.166
+ TR=2.3199E-9
+ XTB=1.5000
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* EMF8_DT NPN DT model
* Date: 2007/01/11
* BJT with resistors
*****C B E
.SUBCKT EMF8_DT 1 2 3
R1 2 Base Rb 47k
R2 Base 3 Re 47k
Q1 1 Base 3 QDTC1
.MODEL Rb RES
+ R=1
.MODEL Re RES
+ R=1
.MODEL QDTC1 NPN
+ IS=20.000E-15
+ BF=198.80
+ VAF=15
+ IKF=.28787
+ ISE=20.001E-15
+ NE=1.6289
+ BR=8.4556
+ VAR=100
+ IKR=.2645
+ ISC=8.0686E-12
+ NC=2.3678
+ NK=.75224
+ RE=.2
+ RB=10.670
+ RC=1.1274
+ CJE=11.342E-12
+ MJE=.38289
+ CJC=4.0230E-12
+ MJC=.34629
+ TF=500.00E-12
+ XTF=580.91
+ VTF=195.13
+ ITF=19.351
+ TR=200.00E-9
+ XTB=1.5000
.ENDS EMF8_DT
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