

.MODEL QBC547B NPN(

+ IS=2.39E-14
+ NF=1.008
+ ISE=3.545E-15
+ NE=1.541
+ BF=294.3
+ IKF=0.1357
+ VAF=63.2
+ NR=1.004
+ ISC=6.272E-14
+ NC=1.243
+ BR=7.946
+ IKR=0.1144
+ VAR=25.9
+ RB=1
+ IRB=1E-06
+ RBM=1
+ RE=0.4683
+ RC=0.85
+ XTB=0
+ EG=1.11
+ XTI=3
+ CJE=1.358E-11
+ VJE=0.65
+ MJE=0.3279
+ TF=4.391E-10
+ XTF=120
+ VTF=2.643
+ ITF=0.7495
+ PTF=0
+ CJC=3.728E-12
+ VJC=0.3997
+ MJC=0.2955
+ XCJC=0.6193
+ TR=1E-32
+ CJS=0
+ VJS=0.75
+ MJS=0.333
+ XTB=0
+ XTI=3
+ EG=1.11
+ FC=0.9579)
*