

.MODEL QBC546A NPN(

+ IS=1.533E-14
+ NF=1.002
+ ISE=7.932E-16
+ NE=1.436
+ BF=178.7
+ IKF=0.1216
+ VAF=69.7
+ NR=1.004
+ ISC=8.305E-14
+ NC=1.207
+ BR=8.628
+ IKR=0.1121
+ VAR=44.7
+ RB=1
+ IRB=1E-06
+ RBM=1
+ RE=0.6395
+ RC=0.6508
+ XTB=0
+ EG=1.11
+ XTI=3
+ CJE=1.61E-11
+ VJE=0.4209
+ MJE=0.3071
+ TF=4.995E-10
+ XTF=139
+ VTF=3.523
+ ITF=0.7021
+ PTF=0
+ CJC=4.388E-12
+ VJC=0.2
+ MJC=0.2793
+ XCJC=0.6193
+ TR=1E-32
+ CJS=0
+ VJS=0.75
+ MJS=0.333
+ FC=0.7762)