

.MODEL QBC557A PNP(

+ IS=2.059E-14
+ NF=1.003
+ ISE=2.971E-15
+ NE=1.316
+ BF=227.3
+ IKF=0.08719
+ VAF=37.2
+ NR=1.007
+ ISC=1.339E-14
+ NC=1.15
+ BR=7.69
+ IKR=0.07646
+ VAR=11.42
+ RB=1
+ IRB=1E-06
+ RBM=1
+ RE=0.688
+ RC=0.6437
+ XTB=0
+ EG=1.11
+ XTI=3
+ CJE=1.4E-11
+ VJE=0.5912
+ MJE=0.3572
+ TF=7.046E-10
+ XTF=4.217
+ VTF=5.367
+ ITF=0.1947
+ PTF=0
+ CJC=1.113E-11
+ VJC=0.1
+ MJC=0.3414
+ XCJC=0.6288
+ TR=1E-32
+ CJS=0
+ VJS=0.75
+ MJS=0.333
+ FC=0.7947)