

.MODEL QBC817W NPN(

+ IS = 9.198E-14
+ NF = 1.003
+ ISE = 4.468E-16
+ NE = 1.65
+ BF = 338.8
+ IKF = 0.4913
+ VAF = 107.9
+ NR = 1.002
+ ISC = 5.109E-15
+ NC = 1.071
+ BR = 29.48
+ IKR = 0.193
+ VAR = 25
+ RB = 1
+ IRB = 1000
+ RBM = 1
+ RE = 0.2126
+ RC = 0.143
+ XTB = 0
+ EG = 1.11
+ XTI = 3
+ CJE = 3.825E-11
+ VJE = 0.7004
+ MJE = 0.364
+ TF = 5.229E-10
+ XTF = 219.7
+ VTF = 3.502
+ ITF = 7.257
+ PTF = 0
+ CJC = 1.27E-11
+ VJC = 0.4431
+ MJC = 0.3983
+ XCJC = 0.4555
+ TR = 7E-11
+ CJS = 0
+ VJS = 0.75
+ MJS = 0.333
+ FC = 0.905)

*