

.MODEL QBC847AW NPN(

+ IS = 9.677E-15  
+ NF = 0.9922  
+ ISE = 5.44E-15  
+ NE = 2  
+ BF = 182.1  
+ IKF = 0.14  
+ VAF = 143.8  
+ NR = 0.9935  
+ ISC = 5.236E-12  
+ NC = 1.53  
+ BR = 7.004  
+ IKR = 0.06  
+ VAR = 31.15  
+ RB = 10  
+ IRB = 5E-06  
+ RBM = 4  
+ RE = 0.78  
+ RC = 0.656  
+ CJE = 1.443E-11  
+ VJE = 0.733  
+ MJE = 0.3514  
+ TF = 6.04E-10  
+ XTF = 8.94  
+ VTF = 3.78  
+ ITF = 0.2711  
+ PTF = 0  
+ CJC = 3.287E-12  
+ VJC = 0.5444  
+ MJC = 0.3954  
+ XCJC = 0.693  
+ TR = 1.1E-07  
+ CJS = 0  
+ VJS = 0.75  
+ MJS = 0.333  
+ XTB = 0  
+ XTI = 3  
+ EG = 1.11  
+ FC = 0.789)

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