

## SPICE Model Parameters

Copy this code from the SPICE model into a SPICE software program for simulation of the GB02SHT03-46.

```
*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:   1.0           $
*      $Date:      29-AUG-2014   $
*
*      GeneSiC Semiconductor Inc.
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*      Dulles, VA 20166
*
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*
*      These models are provided "AS IS, WHERE IS, AND WITH NO WARRANTY
*      OF ANY KIND EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED
*      TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
*      PARTICULAR PURPOSE."
*      Models accurate up to 2 times rated drain current.
*
*      Start of GB02SHT03-46 SPICE Model
*
.SUBCKT GB02SHT03ANODE KATHODE
D1 ANODE KATHODE GB02SHT03_25C; Call the Schottky Diode Model
D2 ANODE KATHODE GB02SHT03_PIN; Call the PiN Diode Model
.MODEL GB02SHT03_25C D
+ IS      3.57E-18      RS      0.49751
+ TRS1    0.0057      TRS2    2.40E-05
+ N       1            IKF     322
+ EG      1.2          XTI     3
+ CJO     9.12E-11     VJ      0.371817384
+ M       1.527759838  FC      0.5
+ TT      1.00E-10     BV      300
+ IBV     1.00E-03     VPK     300
+ IAVE    2            TYPE    SiC_Schottky
+ MFG     GeneSiC_Semiconductor
.MODEL GB02SHT03_PIN D
+ IS      5.73E-11     RS      0.72994
+ N       5            IKF     800
+ EG      3.23         XTI     -14
+ FC      0.5          TT      0
+ BV      300          IBV     1.00E-03
+ VPK     300          IAVE    2
+ TYPE    SiC_PiN
.ENDS
*
*      End of GB02SHT03 SPICE Model
```