

SPICE Model Parameters

Please copy this code from the SPICE model into LTSPICE (version 4) software for simulation of the GB20SHT06-CAU.

```
*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:  1.0          $
*      $Date:    05-SEP-2013   $
*
*      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 GB20SHT06-CAU SPICE Model
*
.SUBCKT GB20SHT06 ANODE KATHODE
D1 ANODE KATHODE GB20SHT06_25C; Call the Schottky Diode Model
D2 ANODE KATHODE GB20SHT06_PIN; Call the PiN Diode Model
.MODEL GB20SHT06_25C D
+ IS      8.46E-17          RS      0.0319
+ N       1                IKF     1000
+ EG      1.2              XTI     3
+ TRS1    0.0038           TRS2    3.00E-05
+ CJO     1.26E-09         VJ     0.438
+ M       1.5278           FC      0.5
+ TT      1.00E-10         BV      650
+ IBV     1.00E-03         VPK    650
+ IAVE    20               TYPE    SiC_Schottky
+ MFG     GeneSiC_Semiconductor
.MODEL GB20SHT06_PIN D
+ IS      2.77E-10         RS      0.086693
+ N       3.3505           IKF     3.67E-06
+ EG      3.23             XTI     -10
+ FC      0.5              TT      0
+ BV      650              IBV     1.00E-03
+ VPK     650              IAVE    20
+ TYPE    SiC_PiN
.ENDS
*
*      End of GB20SHT06-CAU SPICE Model
```