

SPICE Model Parameters

This is a secure document. Please copy this code from the SPICE model PDF file on our website (http://www.genesicsemi.com/images/hit_sic/baredie/sjt/GA50JT06-CAL_SPICE.pdf) into LTSPICE (version 4) software for simulation of the GA50JT06-CAL.

```
*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:   1.1           $
*      $Date:      03-Mar-2014   $
*
*      GeneSiC Semiconductor Inc.
*      43670 Trade Center Place Ste. 155
*      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.
*
.model GA50JT06 NPN
+ IS      5.00E-47
+ ISE     1.26E-28
+ EG      3.23
+ BF      106
+ BR      0.55
+ IKF     9000
+ NF      1
+ NE      2
+ RB      0.26
+ RE      0.01
+ RC      0.013
+ CJC     2.3989E-9
+ VJC     2.8346223
+ MJC     0.4846
+ CJE     6.026E-09
+ VJE     3.17915435
+ MJE     0.52951635
+ XTI     3
+ XTB     -1.2
+ TRC1    7.00E-3
+ VCEO    600
+ ICRATING 50
+ MFG     GeneSiC_Semiconductor
*
*      End of GA50JT06-CAL SPICE Model
```