

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/GA20JT06-CAL_SPICE.pdf) into LTSPICE (version 4) software for simulation of the GA20JT06-CAL.

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*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:   1.1                $
*      $Date:      27-FEB-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 GA20JT06 NPN
+ IS      5.00E-47
+ ISE     1.26E-28
+ EG      3.23
+ BF      114
+ BR      0.55
+ IKF     700
+ NF      1
+ NE      2
+ RB      0.26
+ RE      0.01
+ RC      0.045
+ CJC     8.2281E-10
+ VJC     3.311262797257
+ MJC     0.4811772789929
+ CJE     2.33957E-9
+ VJE     2.91486059646
+ MJE     0.4821112143335
+ XTI     3
+ XTB     -1.2
+ TRC1    6.20E-03
+ VCEO    600
+ ICRATING 20
+ MFG      GeneSiC_Semiconductor
*
* End of GA20JT06-CAL SPICE Model
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