

## Section VII: SPICE Model Parameters

Please copy this code from the SPICE model PDF file on our website ([http://www.genesicsemi.com/images/hit\\_sic/sjt/GA05JT03-46\\_SPICE.pdf](http://www.genesicsemi.com/images/hit_sic/sjt/GA05JT03-46_SPICE.pdf)) into LTSPICE (version 4) software for simulation of the GA05JT03-46.

```
*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision: 1.0          $
*      $Date: 12-DEC-2014     $
*
*      GeneSiC Semiconductor Inc.
*      43670 Trade Center Place Ste. 155
*      Dulles, VA 20166
*
*      COPYRIGHT (C) 2014 GeneSiC Semiconductor Inc.
*      ALL RIGHTS RESERVED
*
* 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 GA05JT03 NPN
+ IS          9.8338E-48
+ ISE        1.0733E-26
+ EG          3.23
+ BF          135
+ BR          0.55
+ IKF         200
+ NF          1
+ NE          2.
+ RB          14.5
+ IRB         0.002
+ RBM         0.37
+ RE          0.01
+ RC          0.23
+ CJC         2.16E-10
+ VJC         3.656
+ MJC         0.4717
+ CJE         5.021E-10
+ VJE         2.95
+ MJE         0.4867
+ XTI         3
+ XTB         -1.0
+ TRC1        1.050E-2
+ VCEO        300
+ ICRATING    9
+ MFG         GeneSiC_Semiconductor
*
* End of GA05JT03 SPICE Model
```