

Section VII: SPICE Model Parameters

Please copy this code from the SPICE model PDF file (http://www.genesicsemi.com/images/hit_sic/sjt/2N7635-GA_SPICE.pdf) into LTSPICE (version 4) software for simulation of the 2N7635-GA.

```
*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:   1.3           $
*      $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 2N7635 NPN
+ IS      9.8338E-48
+ ISE     1.0733E-26
+ EG      3.23
+ BF      130
+ BR      0.55
+ IKF     200
+ NF      1
+ NE      2.
+ RB      14.5
+ IRB     0.002
+ RBM     0.37
+ RE      0.231
+ RC      0.16
+ CJC     1.37E-10
+ VJC     3.150960833
+ MJC     0.43821105
+ CJE     2.97E-10
+ VJE     2.901930244
+ MJE     0.475141754
+ XTI     3
+ XTB     -0.45
+ TRC1    1.50E-02
+ VCEO    600
+ ICRATING 10
+ MFG     GeneSiC_Semiconductor
*
* End of 2N7635-GA SPICE Model
```