

**SPICE Model Parameters**

Please copy this code from the SPICE model into LTSPICE (version 4) software for simulation of the GA10SICP12-263.

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*      MODEL OF GeneSiC Semiconductor Inc.
*      $Revision: 2.0          $
*      $Date:      20-NOV-2015    $
*
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*
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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 GA10SICP12-263 SPICE Model
.SUBCKT GA10SICP12 DRAIN GATE SOURCE
Q1 DRAIN GATE SOURCE GA10SICP12_Q
D1 SOURCE DRAIN GA10SICP12_D1
D2 SOURCE DRAIN GA10SICP12_D2
*
.model GA10SICP12_Q NPN
+ IS      9.833E-48      ISE      1.073E-26      EG      3.23
+ BF      87            BR      0.55            IKF     5000
+ NF      1            NE      2              RB      4.67
+ IRB     0.001         RBM     0.16           RE      0.005
+ RC      0.08         CJC     229.9E-12      VJC     3.22
+ MJC     0.492        CJE     1244E-9       VJE     2.86
+ MJE     0.465        XTI     3            XTB     -1.35
+ TRC1    7E-3         VCEO   1200         ICRATING 10
.MODEL GA10SICP12_D1 D
+ IS      4.55E-15      RS      0.0736         N      1
+ IKF     1000         EG      1.2           XTI     -2
+ TRS1    0.0054347826 TRS2    2.71739E-05    CJO     6.40E-10
+ VJ      0.469        M      1.508         FC      0.5
+ TT      1.00E-10     BV      1200        IBV     1.00E-03
+ VPK     1200         IAVE   10
.MODEL GA10SICP12_D2 D
+ IS      1.54E-22      RS      0.19         TRS1    -0.004
+ N      3.941         EG      3.23           IKF     19
+ XTI     0            FC      0.5          TT      0
+ BV      1200         IBV     1.00E-03    VPK     1200
.ENDS
*      End of GA10SICP12-263 SPICE Model

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