

SPICE Model Parameters

Copy this code from the SPICE model into a SPICE software program for simulation of the 1N8028-GA.

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*      MODEL OF GeneSiC Semiconductor Inc.
*
*      $Revision:  1.0          $
*      $Date:    05-SEP-2013    $
*
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*      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.
*
* Start of 1N8028-GA SPICE Model
*
.SUBCKT 1N8028 ANODE KATHODE
D1 ANODE KATHODE 1N8028_25C; Call the Schottky Diode Model
D2 ANODE KATHODE 1N8028_PIN; Call the PiN Diode Model
.MODEL 1N8028_25C D
+ IS      1.74E-13      RS      0.05105
+ TRS1    0.005        TRS2    1.68E-5
+ N       1.2637323    IKF     1.884319
+ EG      1.2          XTI     3
+ CJO     1.15E-09     VJ      0.44
+ M       1.5          FC      0.5
+ TT      1.00E-10     BV      1200
+ IBV    1.00E-03     VPK     1200
+ IAVE    20           TYPE    SiC_Schottky
+ MFG     GeneSiC_Semiconductor
.MODEL 1N8028_PIN D
+ IS      5.15E-15      RS      0.2
+ N       3.1605        IKF     0.00055844
+ EG      3.23          XTI     3
+ FC      0.5           TT      0
+ BV      1200          IBV     1.00E-03
+ VPK    1200          IAVE    20
+ TYPE    SiC_PiN
.ENDS
*
* End of 1N8028-GA SPICE Model

```