New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

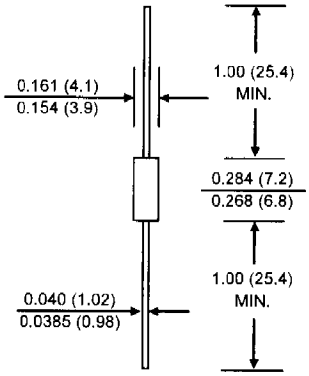
TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

G105C ~ G270C

SIDACs

$I_{T(RSM)}$ = 1.0 Amperes
V_{BO} = 95 thru 280 Volts

D2A



Dimensions in inches and (millimeters)

FEATURES :

* Pb / RoHS Free

MECHANICAL DATA :

* Case : D2A Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.645 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	G105C	G120C	G220C	G240C	G270C	UNIT
Maximum Repetitive Peak Off-State Voltage	V_{DRM}	±90	±90	±180	±180	±180	V
Minimum Breakover Voltage, 60 Hz Sine Wave	$V_{BO(Min.)}$	95	110	205	220	255	V
Maximum Breakover Voltage, 60 Hz Sine Wave	$V_{BO(Max.)}$	113	125	230	250	280	V
Maximum On-State RMS Current Conduction Angle of 360 °	$I_{T(RMS)}$	1.0					A
Peak Surge (Non-Repetitive) On-State RMS Current, One-Cycle, @ 60 Hz	I_{TSM}	20					A
Maximum Repetitive Peak Off-State Current (60 Hz R= 0.1 KΩ)	I_{DRM}	10					µA
Maximum Dynamic Holding Current, 60 Hz, V = V_{DRM}	I_H	150					mA
Maximum Breakover Current, 60 Hz Sine Wave	I_{BO}	200					µA
Peak On-State Voltage , I_T = 1 A	V_{TM}	1.5					V
Maximum Rate of Change of On-State Current	di/dt	150					A/µs
Repetitive Peak On-State Current Pulse width 10 µs f = 1KHz	I_{TRM}	20					A
Minimum Switching Resistance 60Hz Sine Wave $(V_{BO} - V_S)/(I_S - I_{BO})$	R_S	0.1					KΩ
Thermal Resistance, Junction To Case	$R_{\theta JC}$	45					°C/W
Operating Junction Temperature Range	T_J	- 40 to + 125					°C
Storage Temperature Range	T_{STG}	- 65 to + 150					°C

Quality Semi-Conductors

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