

# G105C ~ G270C

# SIDACs

$I_{T(RSM)} = 1.0$  Amperes

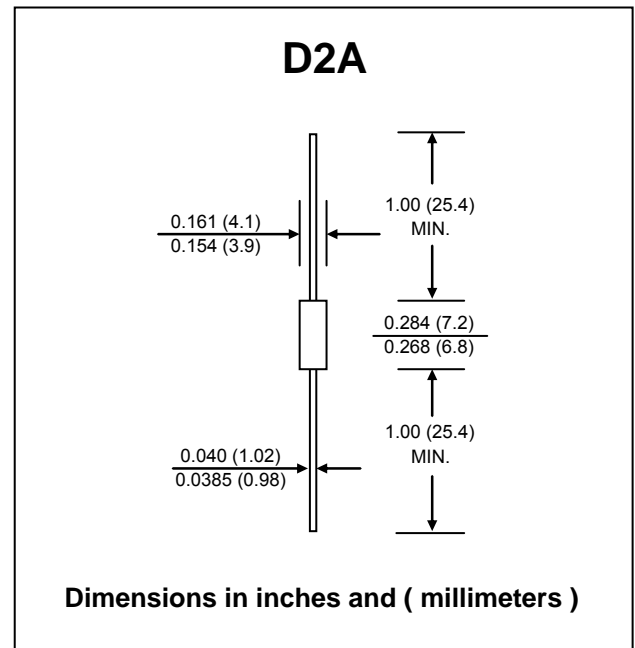
$V_{BO} = 95$  thru 280 Volts

### 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	$R_{θJC}$	45					°C/W
Operating Junction Temperature Range	$T_J$	- 40 to + 125					°C
Storage Temperature Range	$T_{STG}$	- 65 to + 150					°C