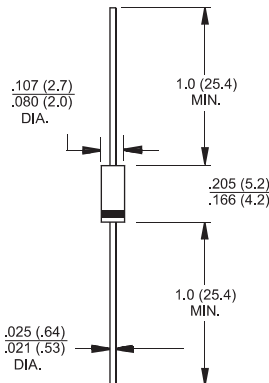


TSC 	1N4001SG THRU 1N4007SG 1.0 AMP. Glass Passivated Rectifiers									
					Voltage Range 50 to 1000 Volts Current 1.0 Ampere					
Features ✧ Low forward voltage drop ✧ High current capability ✧ High reliability ✧ High surge current capability ✧ φ 0.6mm leads					A-405  Dimensions in inches and (millimeters)					
Mechanical Data ✧ Cases: Molded plastic ✧ Epoxy: UL 94V-0 rate flame retardant ✧ Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed ✧ Polarity: Color band denotes cathode end ✧ High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension ✧ Weight: 0.22 gram										
Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%										
Type Number	Symbol	1N 4001SG	1N 4002SG	1N 4003SG	1N 4004SG	1N 4005SG	1N 4006SG	1N 4007SG	Units	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length @T _A = 50°C	I _(AV)	1.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A	
Maximum Instantaneous Forward Voltage @1.0A	V _F	1.0							V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 100							uA uA	
Typical Thermal Resistance (Note 2)	Rθ _{JA}	80							°C/W	
Typical Junction Capacitance (Note 1)	C _j	10							pF	
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 150							°C	

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

RATINGS AND CHARACTERISTIC CURVES (1N4001SG THRU 1N4007SG)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

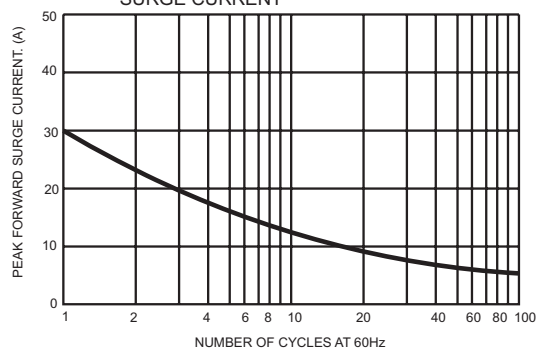


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

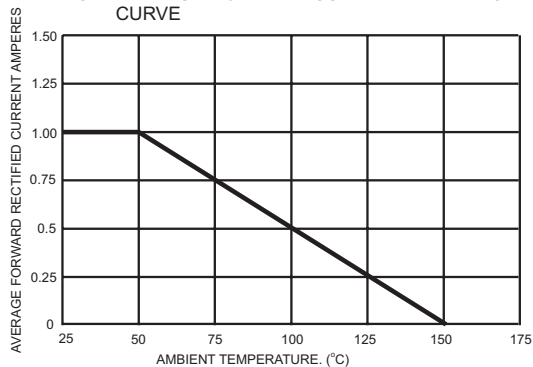


FIG.3- TYPICAL JUNCTION CAPACITANCE

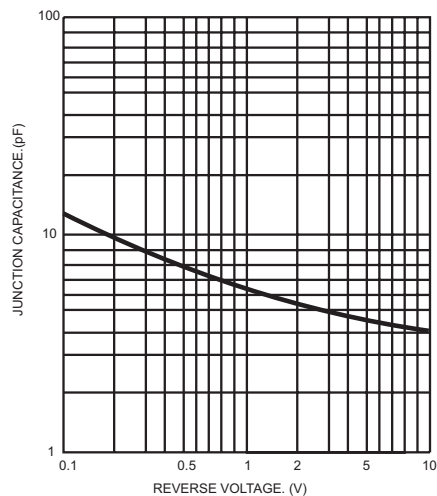


FIG.4- TYPICAL FORWARD CHARACTERISTICS

