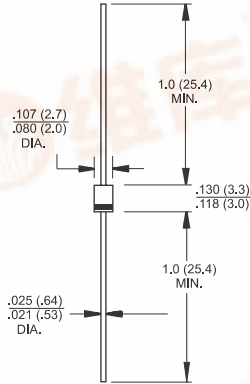


TSC Logo	1T1G THRU 1T7G 1.0 AMP. Glass Passivated Rectifiers									
					Voltage Range 50 to 1000 Volts Current 1.0 Ampere					
Features - Low forward voltage drop - High current capability - High reliability - High surge current capability 3mm miniature body Mechanical Data - Cases: Molded plastic - 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: 0.20 gram					TS-1  Dimensions in inches and (millimeters)					
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	1T1G	1T2G	1T3G	1T4G	1T5G	1T6G	1T7G	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	1.1	1.0						V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C		I _R	5.0					uA		
			100					uA		
Typical Junction Capacitance (Note 1)		C _j	10					pF		
Typical Thermal Resistance (Note 2)		R _{θJA}	100					°C/W		
Operating Temperature Range		T _J	-65 to +150					°C		
Storage Temperature Range		T _{STG}	-65 to +150					°C		

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
 2. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

RATINGS AND CHARACTERISTIC CURVES (1T1G THRU 1T7G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

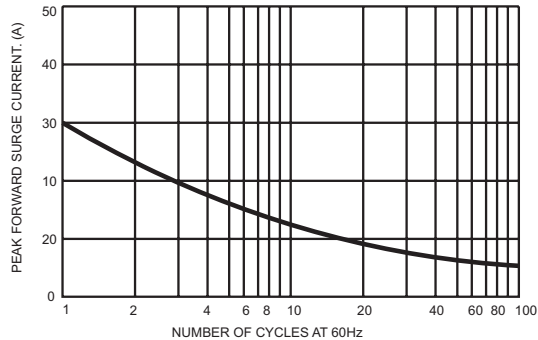


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

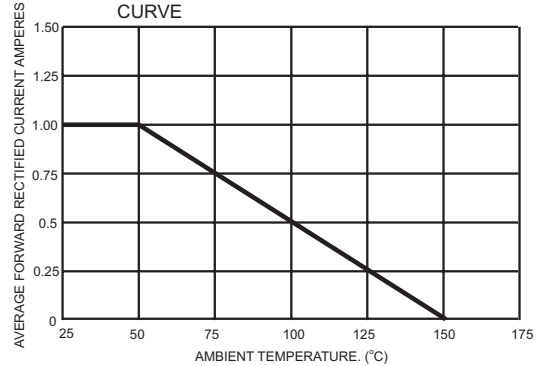


FIG.3- TYPICAL JUNCTION CAPACITANCE

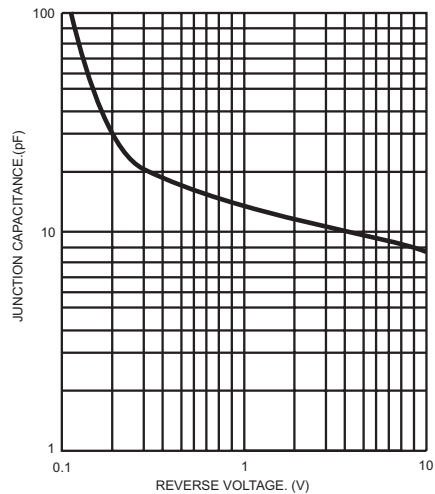


FIG.4- TYPICAL FORWARD CHARACTERISTICS

