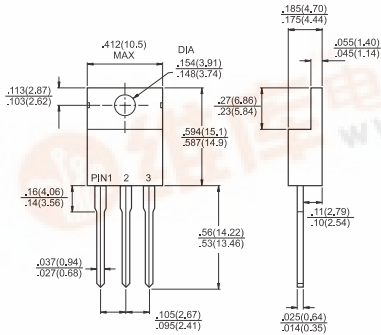


	GP1001 THRU GP1007 10.0 AMPS. Glass Passivated Rectifiers									
					Voltage Range 50 to 1000 Volts Current 10.0 Amperes					
Features ✧ Low forward voltage drop ✧ High current capability ✧ High reliability ✧ High surge current capability					TO-220  PIN 1 PIN 3 CASE PIN 2 Positive CT					
Mechanical Data ✧ Cases: TO-220 molded plastic ✧ Epoxy: UL 94V-0 rate flame retardant ✧ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed ✧ Polarity: As marked ✧ High temperature soldering guaranteed: 260°C/10 seconds .16", (4.06mm) from case. ✧ Weight: 2.24 grams					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	GP 1001	GP 1002	GP 1003	GP 1004	GP 1005	GP 1006	GP 1007	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 _c = 100°C		I _(AV)	10.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I _{FSM}	125							A
Maximum Instantaneous Forward Voltage @ 5.0A		V _F	1.1							V
Maximum DC Reverse Current @ T _c =25°C at Rated DC Blocking Voltage		I _R	5.0							uA
Typical Junction Capacitance (Note 1)		C _j	30							pF
Typical Thermal Resistance (Note 2)		R _{θJC}	3.0							°C/W
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. Thermal Resistance from Junction to Case Mounted on Heatsink size 2" x 3" x 0.25" Al-Plate

RATINGS AND CHARACTERISTIC CURVES (GP1001 THRU GP1007)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

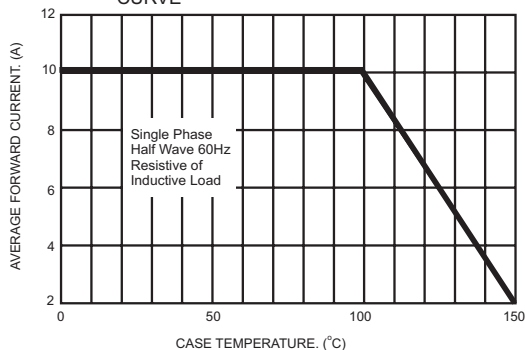


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

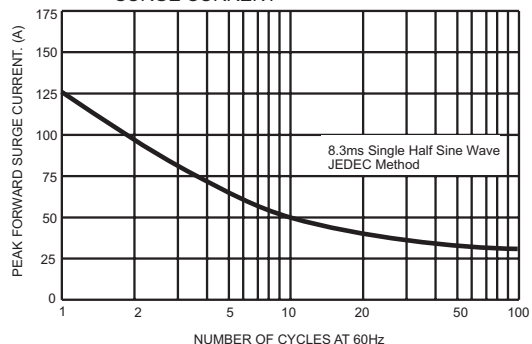


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

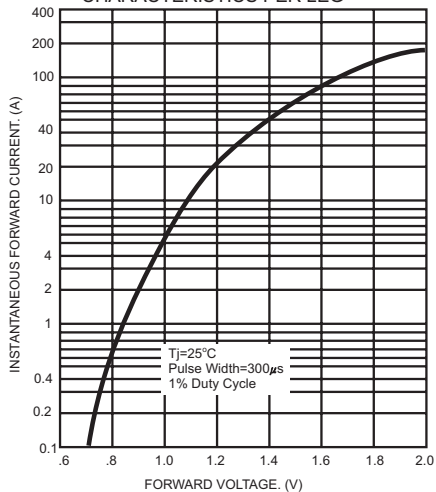


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

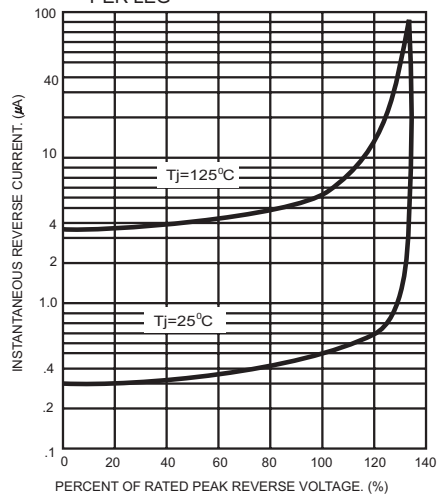


FIG.5- TYPICAL JUNCTION CAPACITANCE

