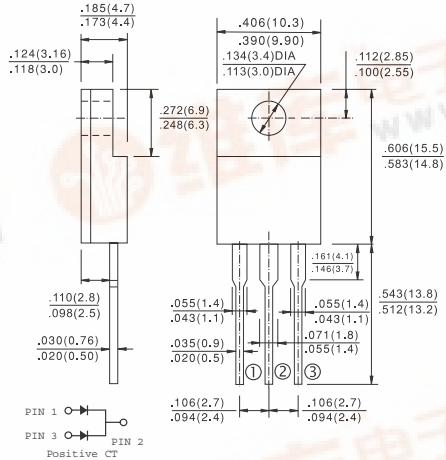


	GPF1601 THRU GPF1607 Isolation 16.0 AMPS. Glass Passivated Rectifiers									
					Voltage Range 50 to 1000 Volts Current 16.0 Amperes					
Features - Low forward voltage drop - High current capability - High reliability - High surge current capability					ITO-220AB  Dimensions in inches and (millimeters)					
Mechanical Data - Cases: ITO-220AB 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 / 0.25" (6.35mm) from case 10 seconds - Mounting torque: 5 in – lbs max. - Weight: 2.24 grams										
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	GPF 1601	GPF 1602	GPF 1603	GPF 1604	GPF 1605	GPF 1606	GPF 1607	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}	16.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							A	
Maximum Instantaneous Forward Voltage @8.0A	V _F	1.1							V	
Maximum DC Reverse Current @ T _C =25°C at Rated DC Blocking Voltage @ T _C =125°C	I _R	10 250							uA uA	
Typical Junction Capacitance (Note 1)	C _j	50							pF	
Typical Thermal Resistance (Note 2)	Rθ _{JC}	1.5							°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 (GPF1601 THRU GPF1607)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

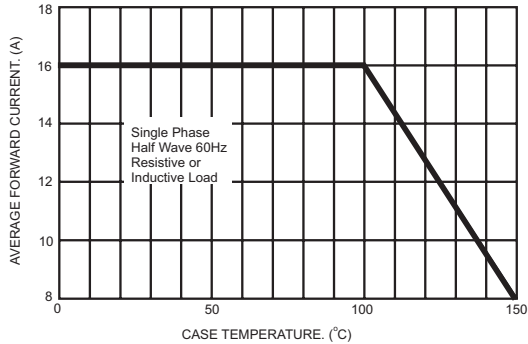


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

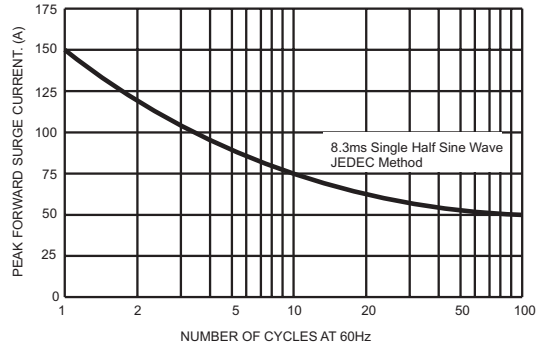


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

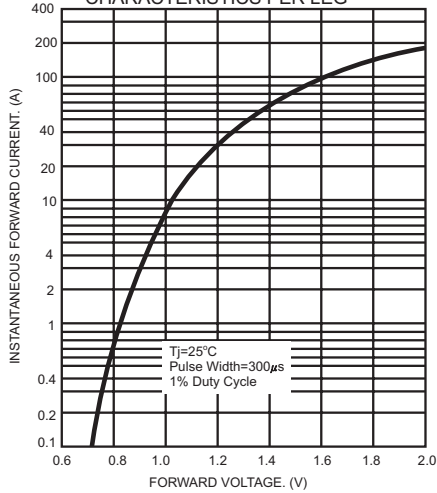


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

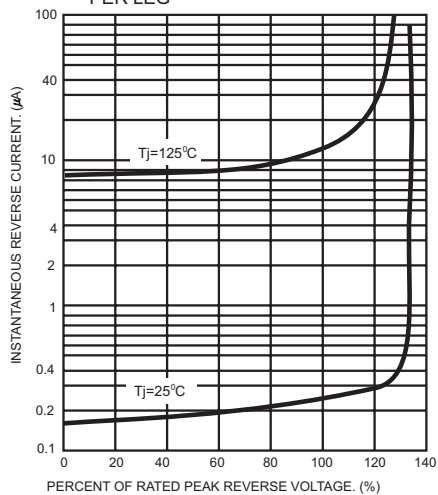


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

