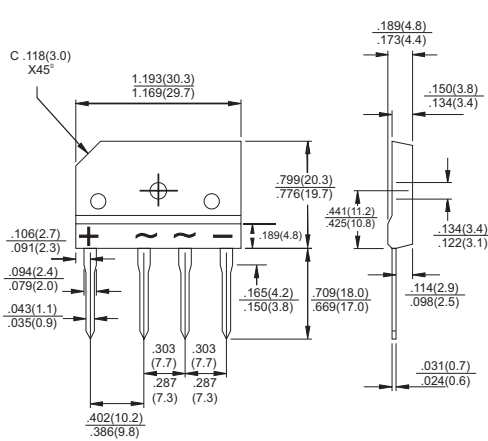


TSC 	TS8P01G THRU TS8P07G Single Phase 8.0 Amps. Glass Passivated Bridge Rectifiers								
	Voltage Range 50 to 1000 Volts Current 8.0 Amperes								
Features ✧ UL Recognized File # E-96005 ✧ Glass passivated junction ✧ Ideal for printed circuit board ✧ Reliable low cost construction ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0 ✧ Surge overload rating to 170 amperes peak ✧ High case dielectric strength of 2000V_{RMS} ✧ Isolated voltage from case to lead over 2500 volts	TS-6P  Dimensions in inches and (millimeters)								
Mechanical Data ✧ Case: Molded plastic ✧ Terminals: Leads solderable per MIL-STD-750 Method 2026 ✧ Weight: 0.3 ounce, 8 grams ✧ Mounting torque: 8.17 in. lbs. max.									
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	TS8P 01G	TS8P 02G	TS8P 03G	TS8P 04G	TS8P 05G	TS8P 06G	TS8P 07G	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 See Fig. 2	I _(AV)	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							A
Maximum Instantaneous Forward Voltage @ 8.0A	V _F	1.1							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 500							µA µA
Typical Thermal Resistance (Note)	R _{θJC}	1.6							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

Note: Thermal Resistance from Junction to Case with Device Mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES (TS8P01G THRU TS8P07G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

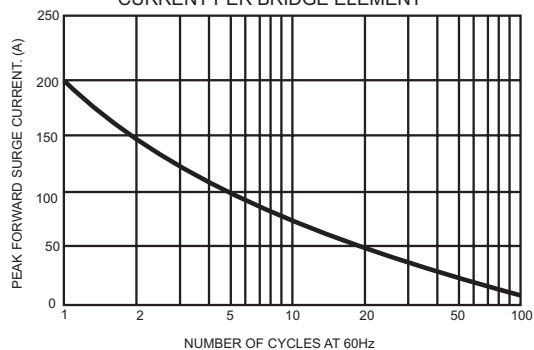


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

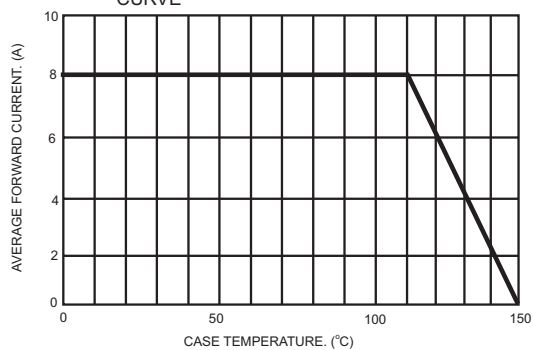


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

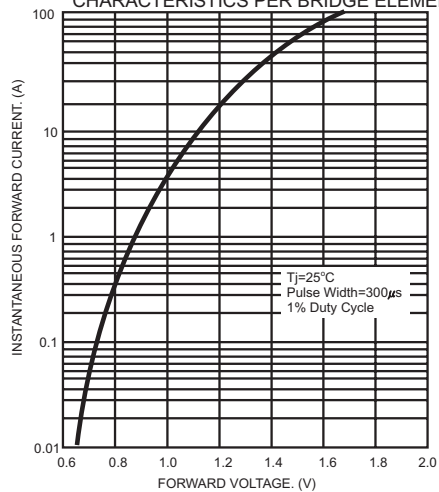
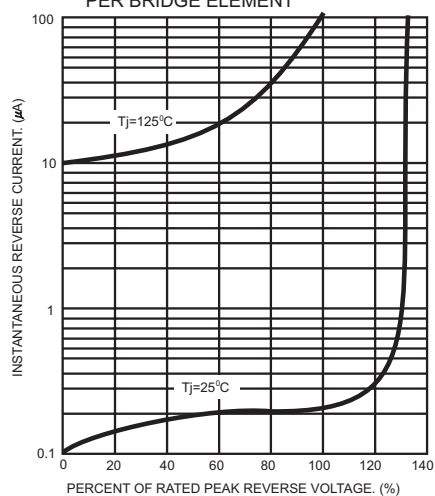


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



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