

TS10P01G THRU TS10P07G

Single Phase 10.0 Amps. Glass Passivated Bridge Rectifiers



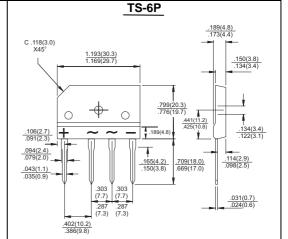
Voltage Range 50 to 1000 Volts Current 10.0 Amperes

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

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.



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	TS10P 01G	TS10P 02G	TS10P 03G	TS10P 04G	TS10P 05G	TS10P 06G	TS10P 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)	10.0						Α	
	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200						Α	
	Maximum Instantaneous Forward Voltage @ 10.0A	V _F	1.1						V	
	Maximum DC Reverse Current @ T_A =25 $^{\circ}$ C at Rated DC Blocking Voltage @ T_A =125 $^{\circ}$ C	" - _D							uA uA	
	Typical Thermal Resistance (Note)	$R\theta_{JC}$	1.4						€ /W	
www.D	Operating Temperature Range	TJ	-55 to +150							Ç
	Storage Temperature Range	rage Temperature Range T _{STG} -55 to + 150								C

Note: Thermal Resistance from Junction to Case with Device Mounted on 4" x 6" x 0.25" Al-Plate Heatsink.



RATINGS AND CHARACTERISTIC CURVES (TS10P01G THRU TS10P07G)

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

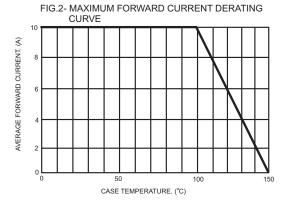
250

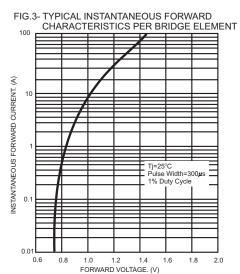
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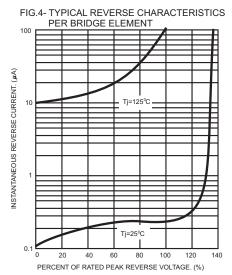
100

100

NUMBER OF CYCLES AT 60Hz







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