## <u>Tsc</u>

### TS15P01G THRU TS15P07G

Single Phase 15.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 15.0 Amperes

TS-6P

#### **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 200 amperes peak
- ♦ High case dielectric strength of 2000 V<sub>RMS</sub>

### **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.

# C. 118(3.0) X45' 1.193(30.3) 1.169(29.7) 1.194(3.4) 7.799(20.3) 7.76(19.7) 1.189(4.8) 1.134(3.4) 1.134(3.4) 1.122(3.1) 1.106(2.7) 1.109(2.7)

### 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.

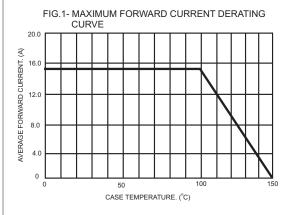
For capacitive load, derate current by 20%

Type Number	Symbol	TS15P 01G	TS15P 02G	TS15P 03G	TS15P 04G	TS15P 05G	TS15P 06G	TS15P 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. 1	I <sub>(AV)</sub>	15.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	200							Α
Maximum Instantaneous Forward Voltage @ 15A	V <sub>F</sub>	1.1							>
Maximum DC Reverse Current @ T <sub>A</sub> =25°C	$I_R$	10.0							uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =125℃	1.	500							uA
Typical Thermal Resistance (Note)	$R\theta_{JC}$	0.8							°C/W
Operating Temperature Range	$T_J$	-55 to +150							ပ္
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							$^{\circ}$

Note: Thermal resistance from Junction to Case with Device Mounted on 5" x 7" x 0.25" AL-Plate Heatsink.



### RATINGS AND CHARACTERISTIC CURVES (TS15P01G THRU TS15P07G)



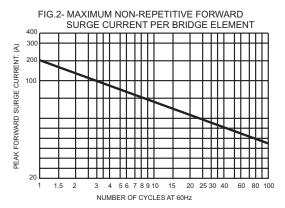
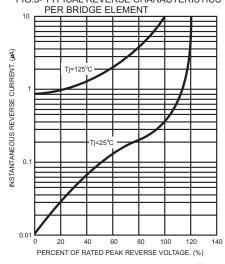


FIG.3-TYPICAL REVERSE CHARACTERISTICS



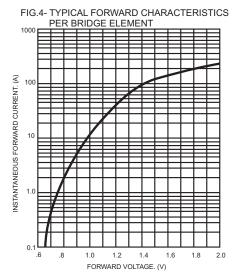


FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE

