

# TS6K40 - TS6K80

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers

## TS4K

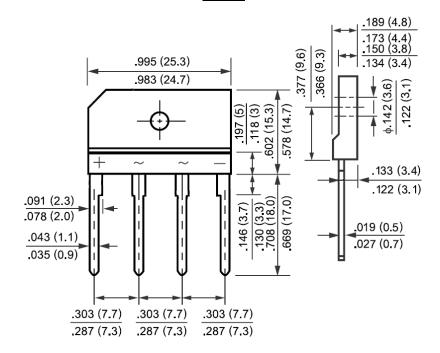






#### **Features**

- UL Recognized File # E-326243.
- 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 150 amperes peak
- High case dielectric strength of  $2000V_{\text{RMS}}$
- High temperature soldering guaranteed: 260°C / 10 seconds / 0.375"(9.5mm) lead length at 5 lbs (2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode.



#### **Mechanical Data**

- Case: Molded plastic
- Terminals: Leads solderable per MIL-STD-750, Method 2026
- Weight: 4 grams
- Mounting torque: 5 in. lbs. Max.

### **Dimensions in inches and (millimeters)**

### **Marking Diagram**



P/N = Specific Device Code

= Green Compound G

= Year

= Work Week ww

# **Maximum Ratings and Electrical Characteristics**

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

Type Number	Symbol	TS6K40	TS6K60	TS6K80	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	400	600	800	V
Maximum RMS Voltage	$V_{RMS}$	280	420	560	V
Maximum DC Blocking Voltage	$V_{DC}$	400	600	800	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	6			Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	150			А
Maximum Instantaneous Forward Voltage @ 3 A (Note 1) @ 6 A	V <sub>F</sub>	1.0 1.1			V
Maximum DC Reverse Current @ $T_A$ =25 $^{\circ}$ C at Rated DC Blocking Voltage @ $T_A$ =125 $^{\circ}$ C	I <sub>R</sub>	5 500			uA uA
Typical Thermal Resistance	R <sub>eJC</sub>	3			°C/W
Operating Temperature Range	TJ	- 55 to + 150			οС
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150			οС

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle



### RATINGS AND CHARACTERISTIC CURVES (TS6K40 THRU TS6K80)

