

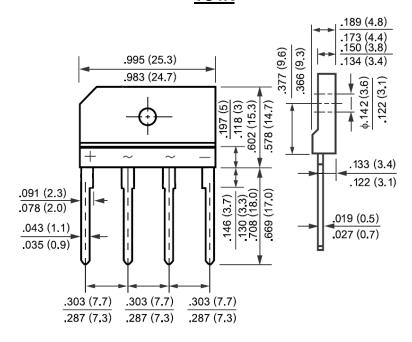


TS4K40 - TS4K80Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers **TS4K**



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 120 amperes peak
- ♦ High case dielectric strength of 2000V_{RMS}
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs.,(2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode



Mechanical Data

♦ Case: Molded plastic

♦ Weight: 4 grams

♦ Mounting torque : 5 in-lbs Max.

Dimensions in inches and (millimeters)

Marking Diagram



P/N = Specific Device Code G = Green Compound

Y = Year
WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

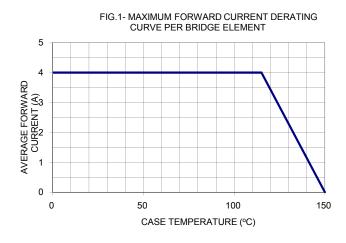
For canacitive load, denate current by 20%

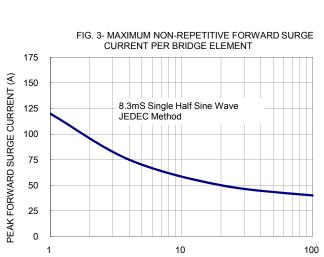
For capacitive load, derate current by 20%					
Type Number	Symbol	TS4K40	TS4K60	TS4K80	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	V
Maximum RMS Voltage	V_{RMS}	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	400	600	800	V
Maximum Average Forward Rectified Current	I _{F(AV)}	4		А	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120			А
Rating of fusing (t<8.3ms)	I ² t	60		A ² S	
Maximum Instantaneous Forward Voltage @ 2 A (Note 1) @ 4 A	V _F	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 _R	10 500		uA uA	
Typical Thermal Resistance	$R_{ heta JC}$	5.5			°C/W
Operating Temperature Range	TJ	- 55 to + 150			οС
Storage Temperature Range	T _{STG}	- 55 to + 150			οС

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



RATINGS AND CHARACTERISTIC CURVES (TS4K40 THRU TS4K80)





NUMBER OF CYCLES AT 60 Hz

