

TS10K40 - TS10K80

Single Phase 10.0 AMPS. Glass Passivated Bridge Rectifiers



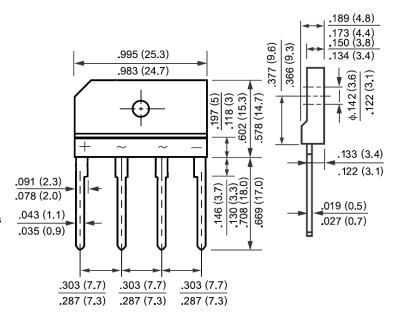






Features

- → 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_{RMS}
- ♦ Isolated voltage from case to lead over 2500 volts
- → 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

 $\ \, \diamondsuit \quad \, \text{Mounting Torque}: 5 \text{ in-lbs Max}.$

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

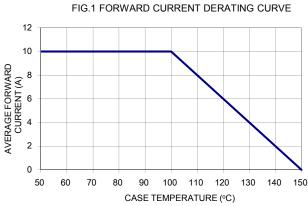
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

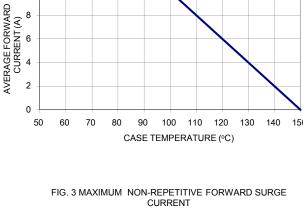
Type Number	Symbol	TS10K40	TS10K60	TS10K80	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	600	800	V
Maximum RMS Voltage	V_{RMS}	280	420	560	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10			А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150			А
Rating of fusing (t<8.3ms)	I ² T	93			A ² S
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A @10 A	V _F	1.0 1.1			V
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =125 $^{\circ}$ C	I _R	10 500			uA
Typical Thermal Resistance	$R_{\theta jC}$	2.3			°C/W
Operating Temperature Range	TJ	- 55 to + 150			оС
Storage Temperature Range	T _{STG}	- 55 to + 150			οС

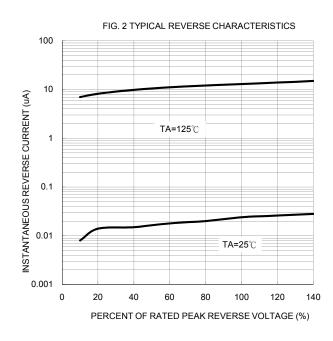
Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle

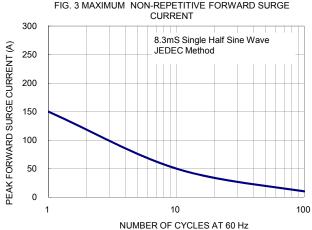


RATINGS AND CHARACTERISTIC CURVES (TS10K40 THRU TS10K80)









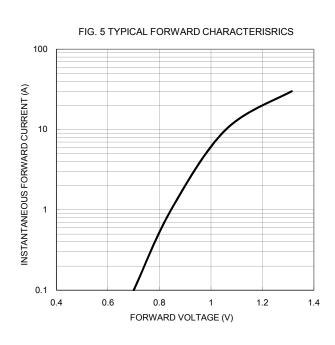


FIG. 4 TYPICAL JUNCTION CAPACITANCE 300 TA=25°℃ f=1.0MHz Vsig=50mVp-p 0 0.1 10 100 REVERSE VOLTAGE (V)