



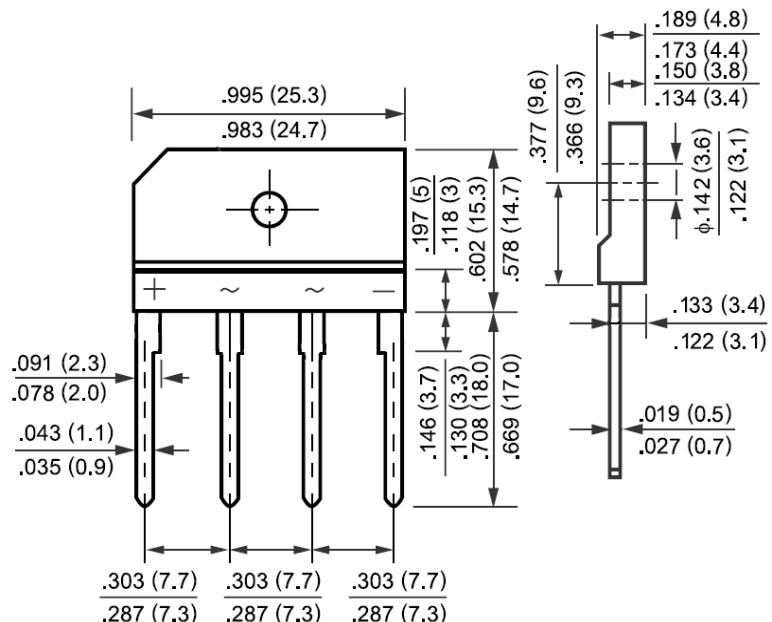
TS4K40 - TS4K100

Single Phase 4.0 AMPS. Glass Passivated Bridge Rectifiers

TS4K

Features

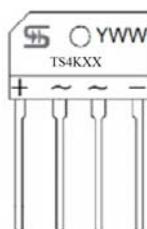
- ◊ Glass passivated junction
- ◊ Ideal for printed circuit board
- ◊ Reliable low cost construction
- ◊ Plastic material has Underwriters laboratory Flammability Classification 94V-0
- ◊ Surge overload rating to 120 amperes peak
- ◊ High case dielectric strength of 2000V_{RMS}
- ◊ High temperature soldering 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

TS4KXX	= Specific Device Code
G	= Green Compound
Y	= Year
WW	= Work Week

Maximum Ratings and Electrical Characteristics

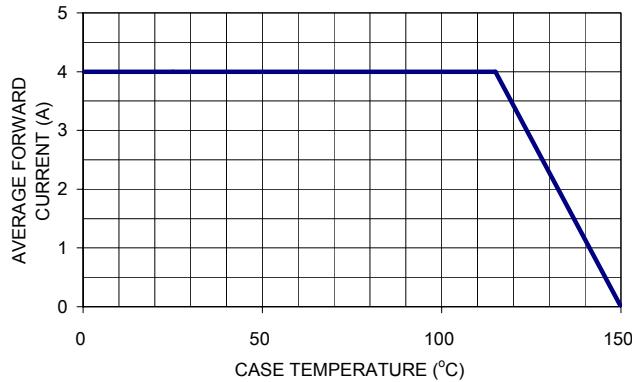
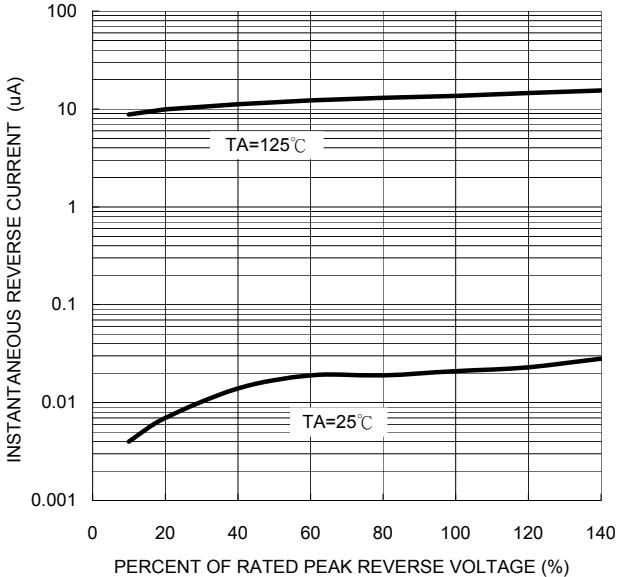
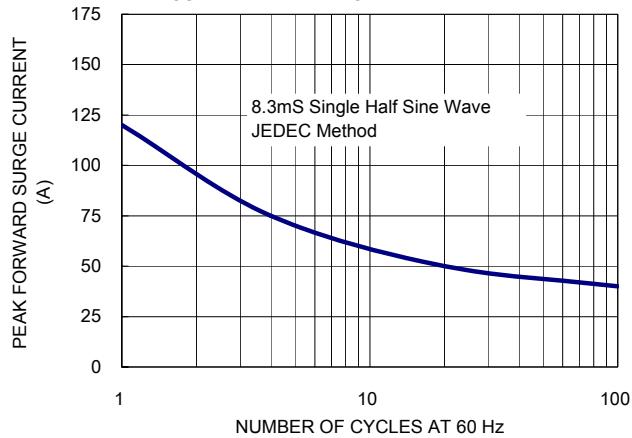
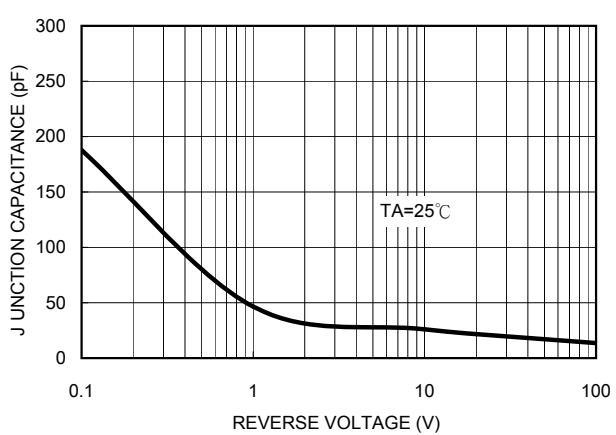
Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	TS4K40	TS4K60	TS4K80	TS4K100	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}		4			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}		120			A
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 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R		10 500			uA uA
Typical Thermal Resistance	R _{θJC}		5.5			°C/W
Operating Temperature Range	T _J		- 55 to + 150			°C
Storage Temperature Range	T _{STG}		- 55 to + 150			°C

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

RATINGS AND CHARACTERISTIC CURVES (TS4K40 THRU TS4K100)
**FIG.1- MAXIMUM FORWARD CURRENT DERATING
CURVE PER BRIDGE ELEMENT**

**FIG. 2- TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT**

**FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE
CURRENT PER BRIDGE ELEMENT**

FIG. 4- TYPICAL JUNCTION CAPACITANCE

**FIG. 5- TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT**
