

TS6K40 - TS6K80 Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers TS4K

.995 (25.3)

983 (24,7)

Features

- UL Recognized File # E-326243. ♦
- ∻ Glass passivated junction

Mechanical Data

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∻

办

♦

Case: Molded plastic

STD-750, Method 2026

Weight: 4 grams

- ∻ 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.

Terminals: Leads solderable per MIL-

Mounting torque : 5 in. lbs. Max.

Dimensions in inches and (millimeters)

Marking Diagram

P/N

G

Υ

.303 (7.7)

.287 (7.3)

118 (3)

602 (15.3)

6

(2)

197

578 (14.7)

669 (17.0) 130 (3.3) 708 (18.0) 146 (3.7)



.303 (7.7)

.287 (7.3)

= Specific Device Code

366 (9 3) 377 (9.6)

.189 (4.8) .173 (4.4) .150 (3.8)

.134 (3.4)

φ.142 (3.6) 122 (3.1)

.133 (3.4)

.122 (3.1)

.019 (0.5)

.027 (0.7)

- = Green Compound = 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	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 _{F(AV)}	6			А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150			А
Maximum Instantaneous Forward Voltage @ 3 A (Note 1) @ 6 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	5 500			uA uA
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$	3			^o C/W
Operating Temperature Range	TJ	- 55 to + 150			°C
Storage Temperature Range	T _{STG}	- 55 to + 150			°C

.091 (2.3)

.078 (2.0)

.043 (1.1)

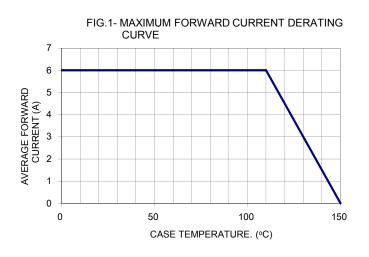
.035 (0.9)

.303 (7.7)

.287 (7.3)

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

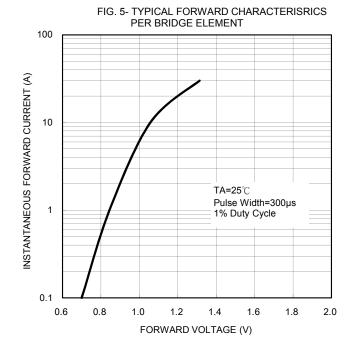




RATINGS AND CHARACTERISTIC CURVES (TS6K40 THRU TS6K80)

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

NUMBER OF CYCLES AT 60Hz



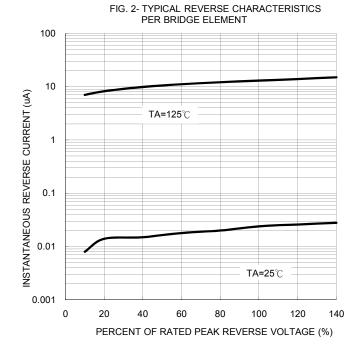
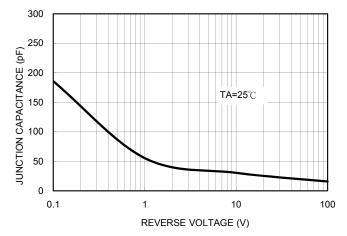


FIG. 4- TYPICAL JUNCTION CAPACITANCE



Version:C12