

### Features

- ◇ UL Recognized File #E-326243
- ◇ Glass passivated junction
- ◇ Ideal for printed circuit board
- ◇ High case dielectric strength of 2500V<sub>RMS</sub>
- ◇ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ◇ Typical IR less than 0.1uA
- ◇ High surge current capability to 350A
- ◇ 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 body
- ◇ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ◇ Weight: 7.15 grams
- ◇ Mounting Torque : 8.17 in-lbs Max.

### Ordering Information (example)

Part No.	Package	Packing	Packing code	Green Compound Packing code
TS25P01G	TS6P	15 / TUBE	D2	D2G

### 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	TS25P 01G	TS25P 02G	TS25P 03G	TS25P 04G	TS25P 05G	TS25P 06G	TS25P 07G	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	25							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	350							A
Rating of fusing ( t<8.3ms)	I <sup>2</sup> T	508							A <sup>2</sup> S
Maximum Instantaneous Forward Voltage @ 12.5A (Note 1) @ 25.0A	V <sub>F</sub>	1.0 1.1							V
Maximum Reverse Current @ Rated VR T <sub>A</sub> =25 °C T <sub>A</sub> =125 °C	I <sub>R</sub>	10 500							uA
Typical Junction Capacitance per leg (Note 2)	C <sub>j</sub>	140							pF
Typical Thermal Resistance	R <sub>θJC</sub>	0.6							°C/W
Operating Temperature Range	T <sub>J</sub>	- 55 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150							°C

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

Note 2 : Measured at 1MHz and applied Reverse bias of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES (TS25P01G THRU TS25P07G)

FIG.1 FORWARD CURRENT DERATING CURVE

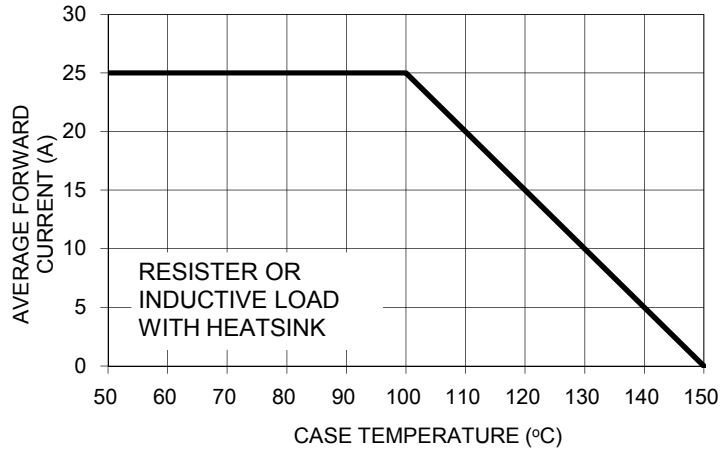


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

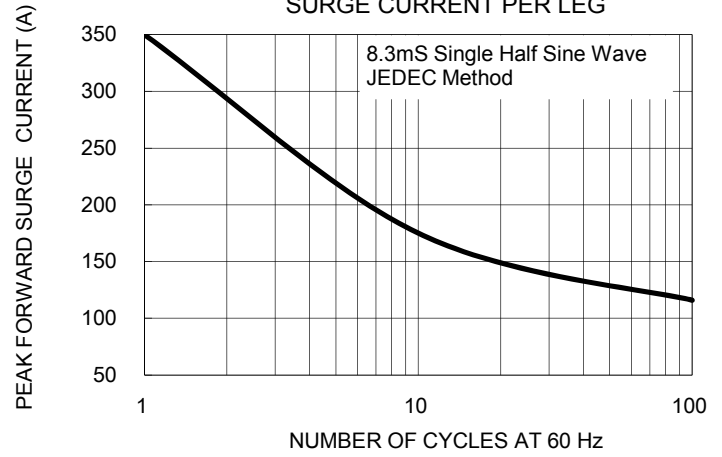


FIG. 3 TYPICAL REVERSE CHARACTERISTICS PER LEG

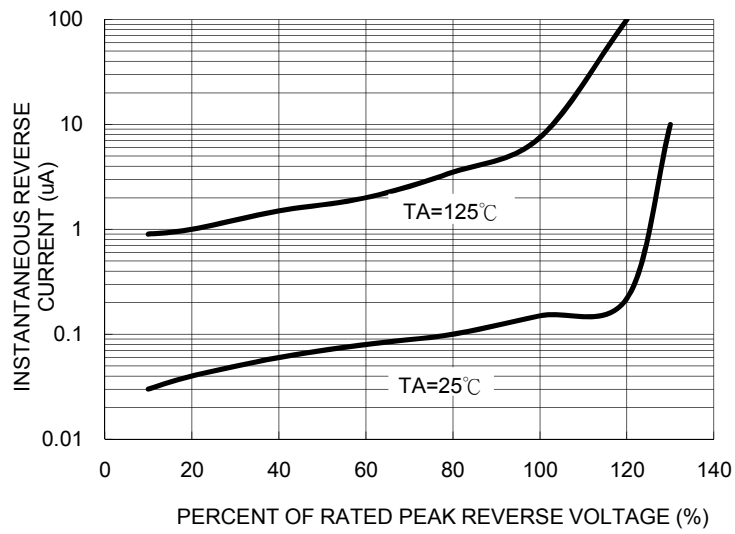


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

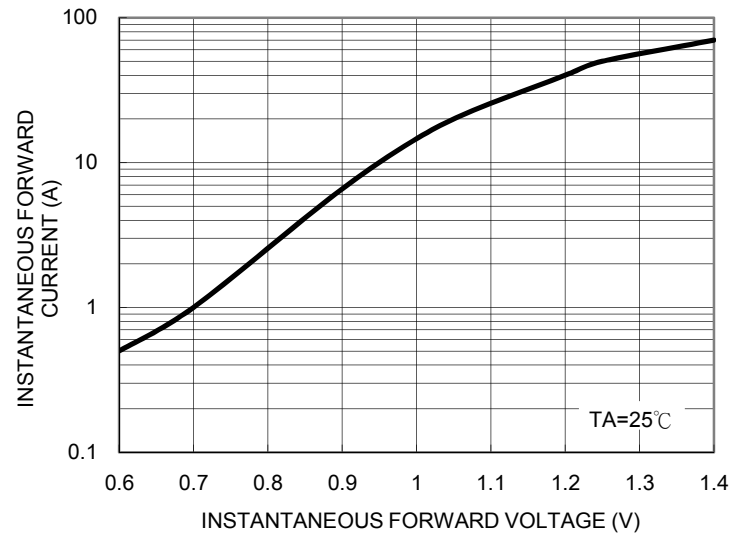
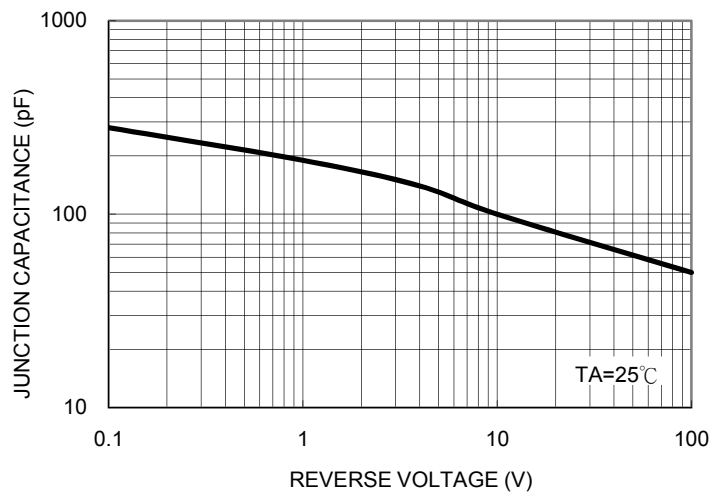


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG



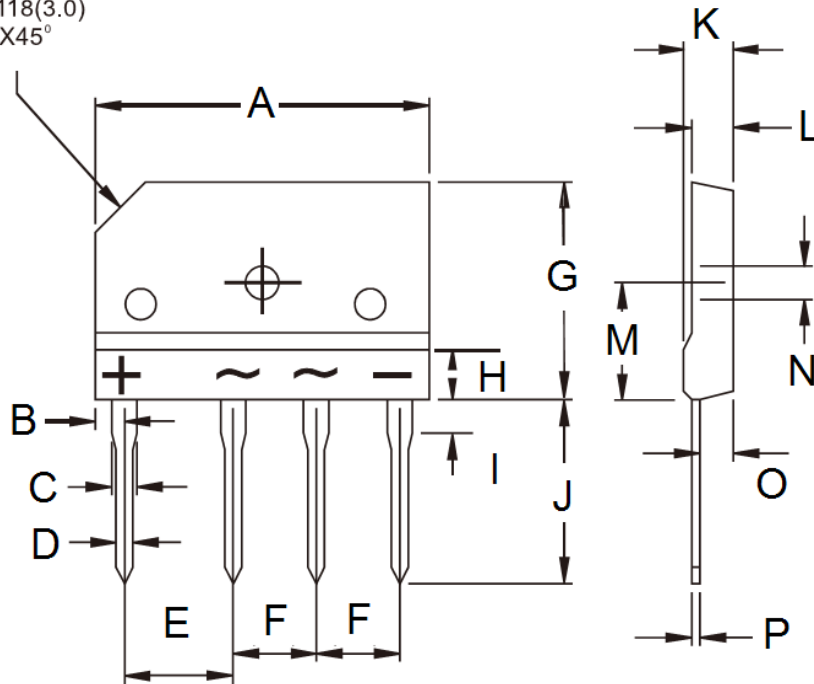
### Ordering information

Part No.	Package	BULK Packing	Packing code	Green Compound Packing code
TS25P0xG	TS6P	15 / TUBE	D2	D2G
	TS6P	Forming	X2	X2G

Note: "x" is Device Code from "1" thru "7".

### Dimensions

C .118(3.0)  
X45°



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	29.70	30.30	1.169	1.193
B	2.30	2.70	0.091	0.106
C	2.00	2.40	0.079	0.094
D	0.90	1.10	0.035	0.043
E	9.80	10.20	0.386	0.402
F	7.30	7.70	0.287	0.303
G	19.70	20.30	0.776	0.799
H	-	4.80	-	0.189
I	3.80	4.20	0.150	0.165
J	17.00	18.00	0.669	0.709
K	4.40	4.80	0.173	0.189
L	3.40	3.80	0.134	0.150
M	10.80	11.20	0.425	0.441
N	3.10	3.40	0.122	0.134
O	2.50	2.90	0.098	0.114
P	0.60	0.70	0.024	0.028

### Marking Diagram



P/N = Specific Device Code  
 G = Green Compound  
 YWW = Date Code