

- Typical IR less than 0.1uA
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



**TS-6P**

**MECHANICAL DATA**

**Case :** TS-6P

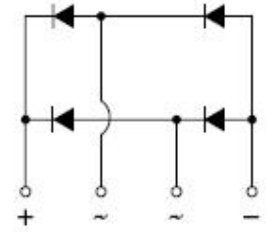
Molding compound, UL flammability classification rating 94V-0  
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant

**Terminal :** Matte tin plated leads, solderable per JESD22-B102  
 Meet JESD 201 class 1A whisker test

**Polarity :** Polarity as marked on the body

**Mounting torque :** 8.17 in-lbs maximum

**Weight :** 7.15 gram (approximately)



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)**

PARAMETER	SYMBOL	TS25P	TS25P	TS25P	TS25P	TS25P	TS
		01G	02G	03G	04G	05G	0
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	8
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	5
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	8
Maximum average forward rectified current	I <sub>F(AV)</sub>	25					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	350					
Rating for fusing (t<8.3mS)	I <sup>2</sup> T	508					
Maximum instantaneous forward voltage (Note 1) @ 12.5 A @ 25 A	V <sub>F</sub>					1.0 1.1	
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>					10 500	
Typical thermal resistance	R <sub>θJC</sub>	0.6					
Operating junction temperature range	T <sub>J</sub>	- 55 to + 150					
Storage temperature range	T <sub>STG</sub>	- 55 to + 150					

Note 1 : Pulse test with PW=300u sec, 1% duty cycle

(Note 1)	D2	TS-6P	15 / TUBE (Auto)
	X2		Forming

Note 1: "x" defines voltage from 50V (TS25P01G) to 1000V (TS25P07G)

EXAMPLE

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
TS25P07G C2	TS25P07G	C2		
TS25P07G C2G	TS25P07G	C2	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

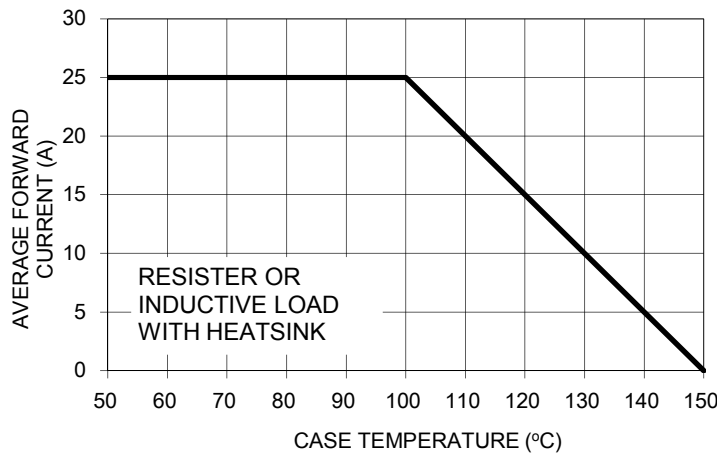


FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

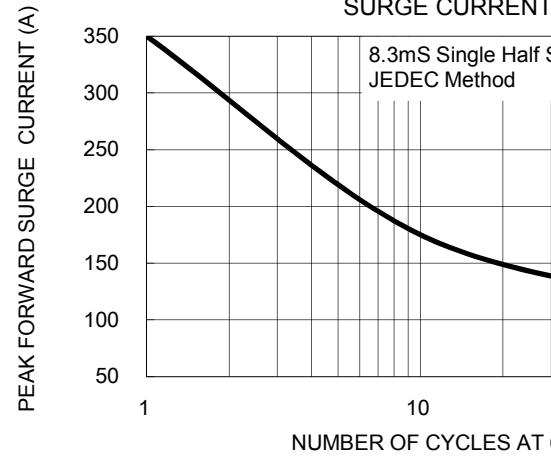


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

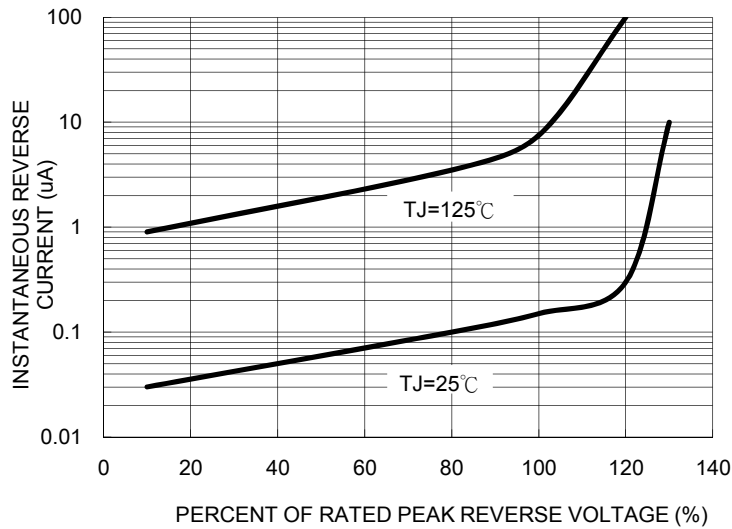
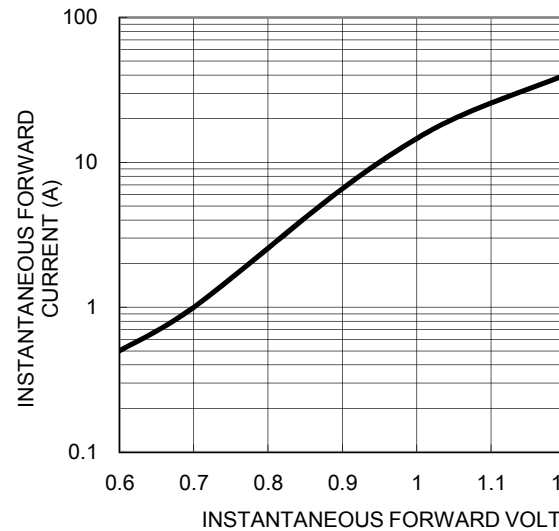
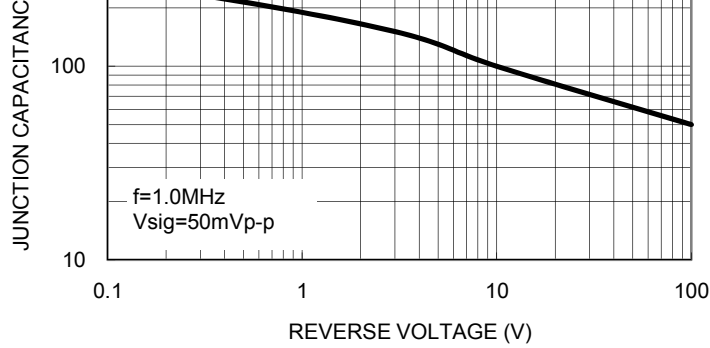
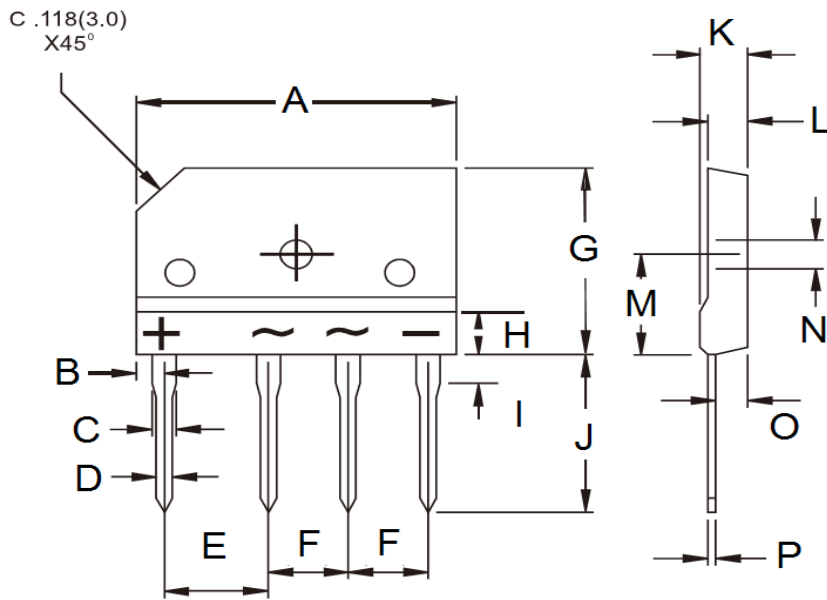


FIG. 4 TYPICAL FORWARD CHARACTERISTICS





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	29.70	30.30	1.169	1.200
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	0.800
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
- F = Factory Code