- High surge current capability
- UL Recognized File # E-326243
- 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

Packing code with suffix "G" means green compound (halogen-free)

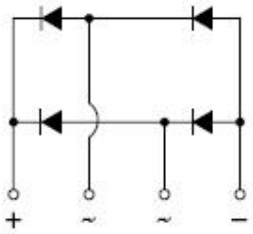
Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: Polarity as marked on the body

Mounting torque: 8.17 in-lbs maximum

Weight: 7.15 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)							
PARAMETER	SYMBOL	TS8P 01G	TS8P 02G	TS8P 03G	TS8P 04G	TS8P 05G	TS 06
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	80
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	56
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	80
Maximum average forward rectified current	$I_{F(AV)}$	8					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	200					
Rating for fusing (t<8.3ms)	I^2t	166					
Maximum instantaneous forward voltage (Note 1) @ 4 A @ 8 A	V_F	 1.0 1.1					
Maximum DC reverse current T_J=25°C at rated DC blocking voltage T_J=125°C	I_R	 10 500					
Typical thermal resistance	$R_{\theta JC}$	1.4					
Operating junction temperature range	T_J	- 55 to +150					
Storage temperature range	T_{STG}	- 55 to +150					

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

Note 1: "x" defines voltage from 50V (TS8P01G) to 1000V (TS8P07G)

EXAMPLE				
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTIO
TS8P07G C2	TS8P07G	C2		
TS8P07G C2G	TS8P07G	C2	G	Green compour

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

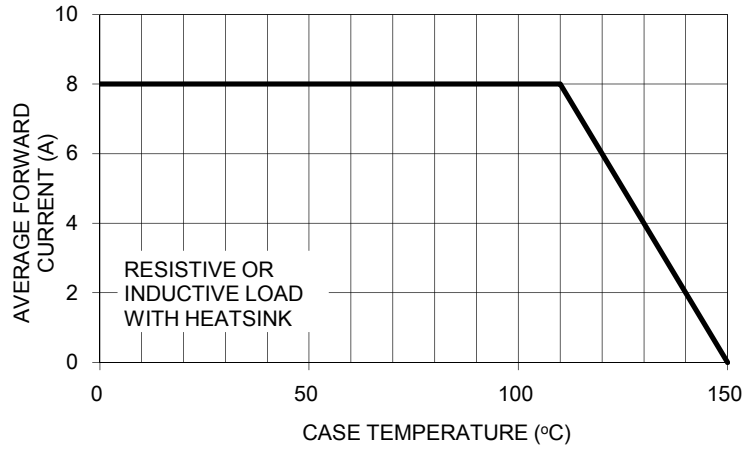


FIG. 2- TYPICAL REVERSE CHARACTE

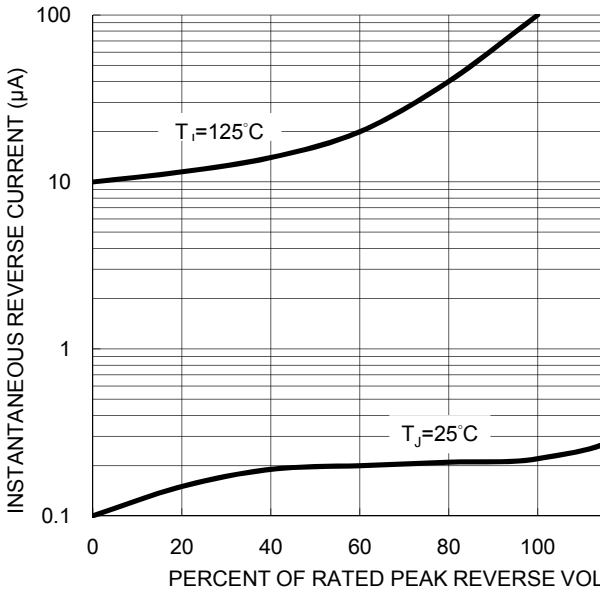


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

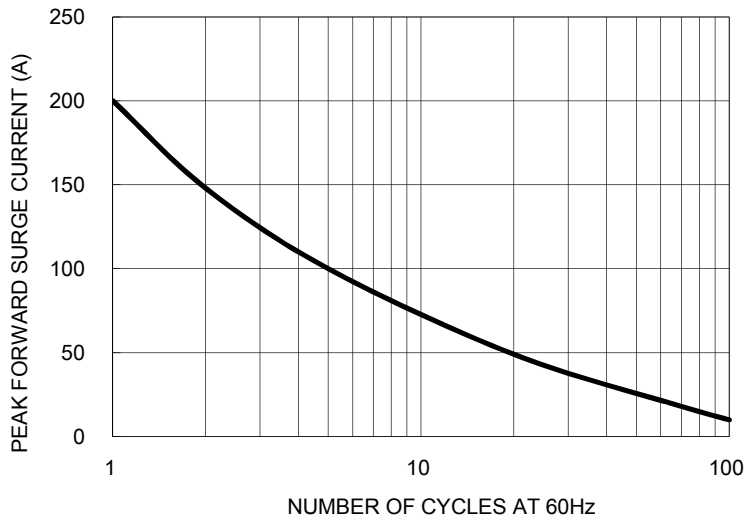
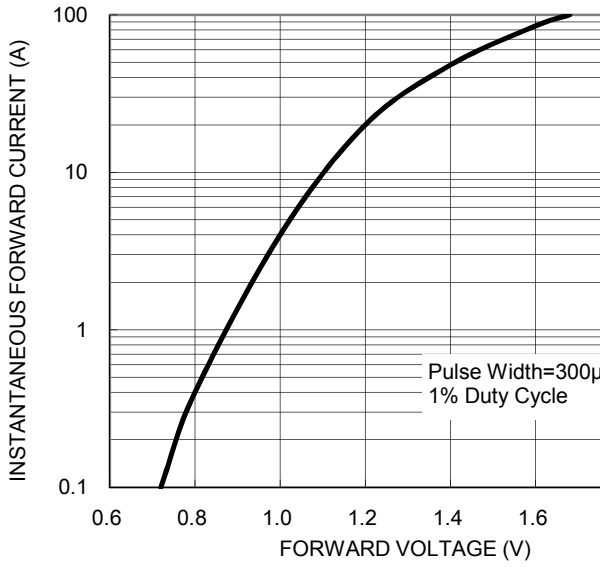
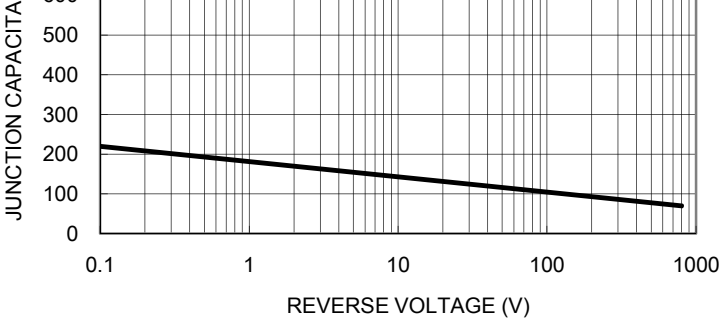


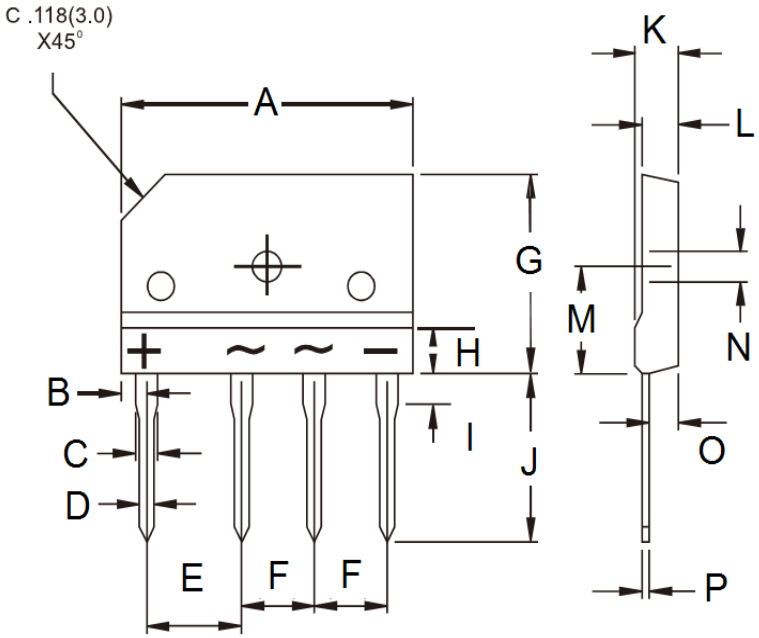
FIG. 4- TYPICAL FORWARD CHARACTER





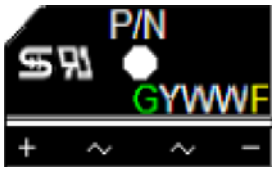
PACKAGE OUTLINE DIMENSIONS

TS-6P



DIM.	Unit (mm)		Unit (inc	
	Min	Max	Min	
A	29.70	30.30	1.169	1
B	2.30	2.70	0.091	0
C	2.00	2.40	0.079	0
D	0.90	1.10	0.035	0
E	9.80	10.20	0.386	0
F	7.30	7.70	0.287	0
G	19.70	20.30	0.776	0
H	-	4.80	-	0
I	3.80	4.20	0.150	0
J	17.00	18.00	0.669	0
K	4.40	4.80	0.173	0
L	3.40	3.80	0.134	0
M	10.80	11.20	0.425	0
N	3.10	3.40	0.122	0
O	2.50	2.90	0.098	0
P	0.65	0.75	0.026	0

MARKING DIAGRAM



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

Document Number: DS_D1411001

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