



# **Glass Passivated Bridge Rectifiers**

## **FEATURES**

- Glass passivated junction
- Ideal for printed circuit board
- Typical IR less than 0.1µA
- 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

- 55 to +150

- 55 to +150





## **MECHANICAL DATA**

Case: TS-6P

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

PARAMETER	SYMBOL	TS8P	TS8P	TS8P 03G	TS8P 04G	TS8P 05G	TS8P 06G	TS8P 07G	UNIT
PARAIVIETER		01G	02G						
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	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>	8						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200					Α		
Rating for fusing (t<8.3ms)	l <sup>2</sup> t				166				A <sup>2</sup> s
Maximum instantaneous forward voltage (Note 1) @ 4 A @ 8 A	V <sub>F</sub>	1.0 1.1						V	
Maximum DC reverse current $T_J$ =25 $^{\circ}$ C at rated DC blocking voltage $T_J$ =125 $^{\circ}$ C	I <sub>R</sub>	10 500				μA			
Typical thermal resistance	$R_{ heta JC}$	1.4						°C/W	
		1							

 $T_{\mathsf{J}}$ 

 $\mathsf{T}_{\mathsf{STG}}$ 

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

Operating junction temperature range

Storage temperature range

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ОС

ОС



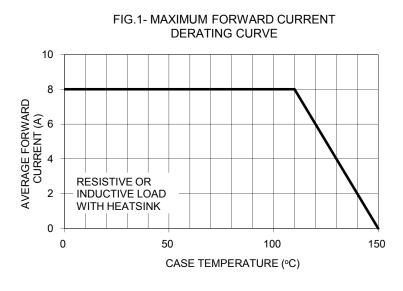
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING			
		CODE					
TOODO	C2		TS-6P	15 / TUBE			
TS8P0xG (Note 1)	X0	Suffix "G"	TS-6P	Forming			
(Note 1)	D2		TS-6P	15 / TUBE (Auto)			

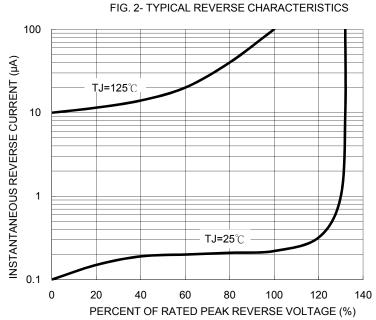
Note 1: "x" defines voltage from 50V (TS8P01G) to 1000V (TS8P07G)

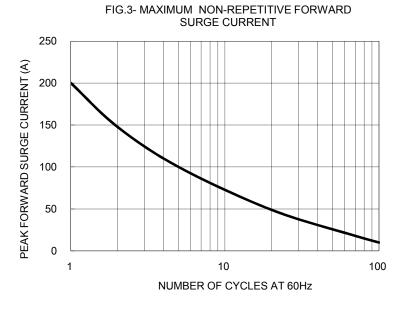
EXAMPLE							
PREFERRED P/N PART NO.		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
TS8P07G C2	TS8P07G	C2					
TS8P07G C2G	TS8P07G	C2	G	Green compound			

## **RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)







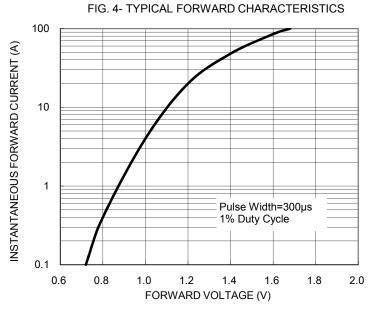
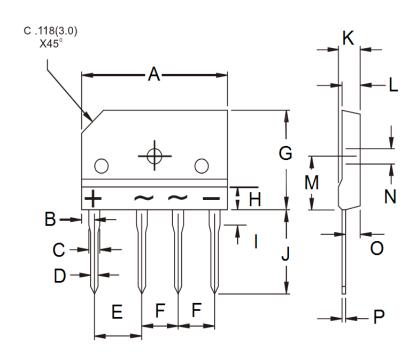




FIG. 5- TYPICAL JUNCTION CAPACITANCE 1000 900 f=1.0MHz Vsig=50mVp-p 800 JUNCTION CAPACITANCE (pF) 700 600 500 400 300 200 100 0 0.1 10 100 1000 REVERSE VOLTAGE (V)

## **PACKAGE OUTLINE DIMENSIONS**



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	29.70	30.30	1.169	1.193		
В	2.30	2.70	0.091	0.106		
С	2.00	2.40	0.079	0.094		
D	0.90	1.10	0.035	0.043		
Е	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		
Н	-	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		
Ш	3.40	3.80	0.134	0.150		
М	10.80	11.20	0.425	0.441		
N	3.10	3.40	0.122	0.134		
0	2.50	2.90	0.098	0.114		
Р	0.60	0.70	0.024	0.028		

## **MARKING DIAGRAM**



P/N = Specific Device Code

G = Green Compound YWW = Date Code

F = Factory Code





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