



# **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









## **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	CHARACTERISTI	CS (T <sub>A</sub> =	=25°C ur	less oth	nerwise r	noted)			
DADAMETED	CVMDOL	TS8P	TS8P	TS8P	TS8P	TS8P	TS8P	TS8P	
PARAMETER	SYMBOL	01G	02G	03G	04G	05G	06G	07G	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	

PARAMETER	SYMBOL	1 301	1 301	1 301	1 301	1 301	1 301	1 301	UNIT
PARAIVIETER	STIVIBOL	01G	02G	03G	04G	05G	06G	07G	CIVIT
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				А			
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 <sub>θJC</sub>				1.4				°C/W
Operating junction temperature range	TJ	- 55 to +150						°C	
Storage temperature range	T <sub>STG</sub>	- 55 to +150			°C				

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



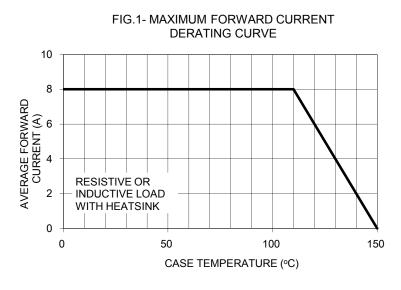
ORDERING INFORMATION							
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING			
T00D0 0	C2		TS-6P	15 / TUBE			
TS8P0xG X0		G	TS-6P	Forming			
(14016-1)	D2		TS-6P	15 / TUBE (Auto)			

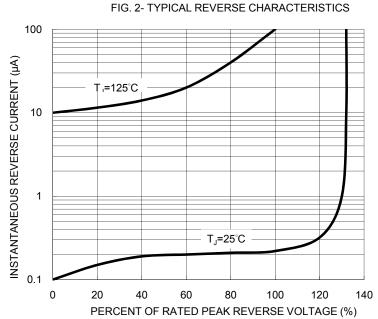
Note 1: "x" defines voltage from 50V (TS8P01G) to 1000V (TS8P07G)

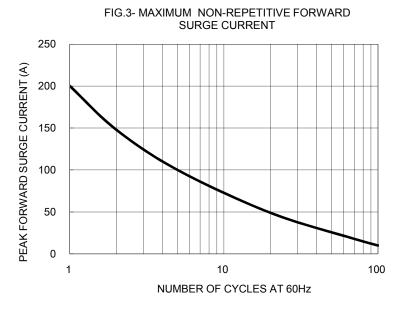
EXAMPLE							
PREFERRED	PART NO.	PACKING CODE	PACKING CODE	DESCRIPTION			
PART NO.		PACKING CODE	SUFFIX	DESCRIPTION			
TS8P07G C2	TS8P07G	C2					
TS8P07G C2G	TS8P07G	C2	G	Green compound			

## **RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub>=25°C unless otherwise noted)







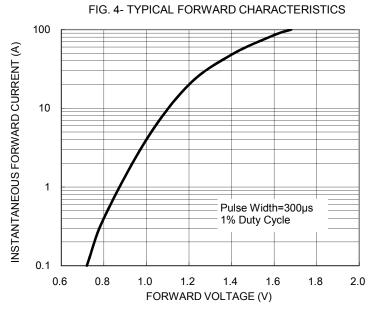
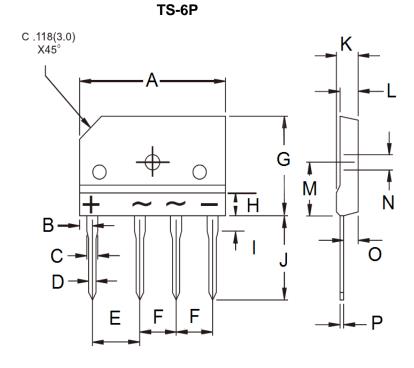




FIG. 5- TYPICAL JUNCTION CAPACITANCE 1000 900 f=1.0MHz Vsig=50mVp-p 800 JUNCTION CAPACITANCE (pF) 700 600 500 400 300 200 100 0 0.1 10 100 REVERSE VOLTAGE (V)

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	1	4.80	1	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	
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	0.65	0.75	0.026	0.030	

#### **MARKING DIAGRAM**



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code





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