



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

10

500

1.8

- 55 to +150

- 55 to +150



MECHANICAL DATA

Case: TS-6P

Molding compound, UL flammability classification rating 94V-0

Packing code with suffix "G" means 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 DC reverse current

Operating junction temperature range

at rated DC blocking voltage

Typical thermal resistance

Storage temperature range

Troight: 7.10 g (approximately)									
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	TS6P 01G	TS6P 02G	TS6P 03G	TS6P 04G	TS6P 05G	TS6P 06G	TS6P 07G	UNIT
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_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	6			Α				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				Α			
Rating for fusing (t<8.3ms)	I ² t	93					A ² s		
Maximum instantaneous forward voltage (Note 1) @ 3 A @ 6 A	V _F	1.0 1.1			V				

 I_R

 $R_{\theta JC}$

 T_J

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

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

T_J=25 °C

T_J=125 °C

μΑ

°C/W

°C

°C



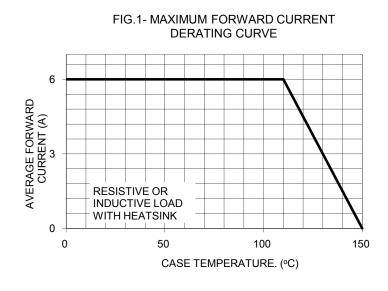
ORDERING INFORMATION							
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING			
		SUFFIX					
T00D00	C2		TS-6P	15 / TUBE			
TS6P0xG X0		G	TS-6P	Forming			
(14010-1)	D2		TS-6P	15 / TUBE (Auto)			

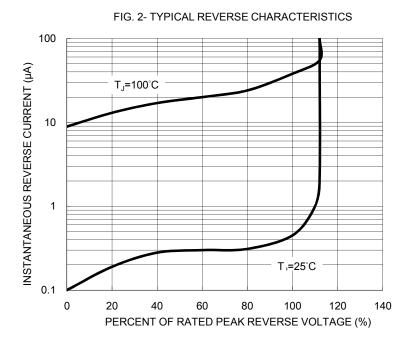
Note 1: "x" defines voltage from 50V (TS6P01G) to 1000V (TS6P07G)

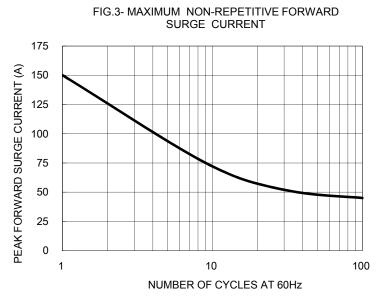
EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TS6P07G C2	TS6P07G	C2				
TS6P07G C2G	TS6P07G	C2	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

 $(T_A=25^{\circ}C \text{ unless otherwise noted})$







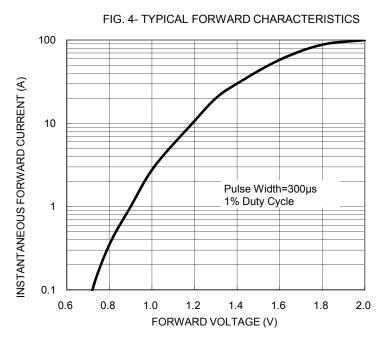
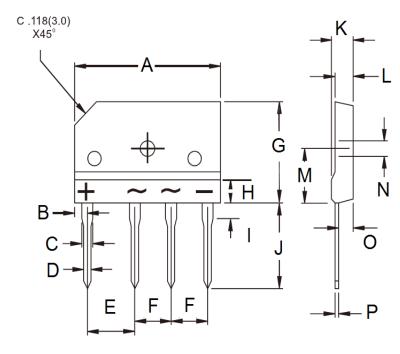




FIG. 5- TYPICAL JUNCTION CAPACITANCE 1000 900 f=1.0MHz Vsig=50mVp-p 800 JUNCTION CAPACITANCE (pF) 700 600 500 400 300 200 100 0 0.1 10 100 1000 REVERSE VOLTAGE (V)

PACKAGE OUTLINE DIMENSIONS

TS-6P



DIM.	Unit	(mm)	Unit (inch)			
DIN.	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		
	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		

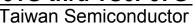
MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code





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