

6A, 50V - 1000V 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







MECHANICAL DATA

Case: TS-6P

Molding compound, UL flammability classification rating 94V-0

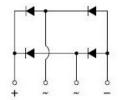
Part no. with suffix "H" means AEC-Q101 qualified

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

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

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body **Mounting torque:** 8.17 in-lbs maximum

Weight: 7.15 g (approximately)



TS-6P

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	TS6P	TS6P	TS6P	TS6P	TS6P	TS6P	TS6P	UNIT
TANAMETER		01G	02G	03G	04G	05G	06G	07G	
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					А		
Rating for fusing (t<8.3ms)	l ² t				93				A ² s
Maximum instantaneous forward voltage (Note 1) @ 3 A @ 6 A	V _F				1.0 1.1				V
Maximum reverse current @ rated V_R	I _R	10 500			μA				
Typical thermal resistance	R _{eJC}				1.8				°C/W
Operating junction temperature range	TJ	- 55 to +150					°C		
Storage temperature range	T _{STG}	- 55 to +150					°C		

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



ORDERING INFORMATION							
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING		
	SUFFIX	CODE	SUFFIX (*)				
TOOPONO		C2		TS-6P	15 / TUBE		
TS6P0xG (Note 1)	Н	X0	G	TS-6P	Forming		
(11010 1)		D2		TS-6P	15 / TUBE (Auto)		

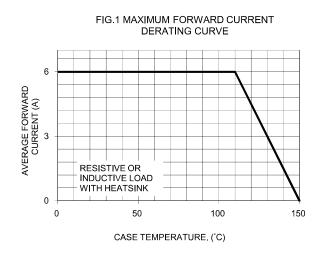
Note 1: "x" defines voltage from 50V (TS6P01G) to 1000V (TS6P07G)

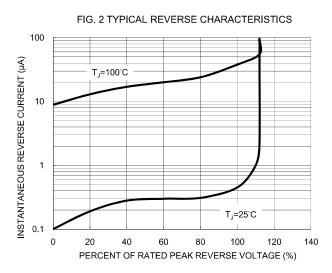
^{*:} Optional available

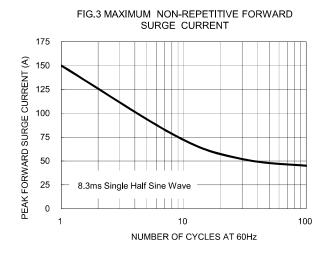
EXAMPLE							
PREFERRED P/N	P/N PART NO. SUFFIX PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION			
TS6P07GHC2G	TS6P07G	Ħ	C2	G	AEC-Q101 qualified Green compound		

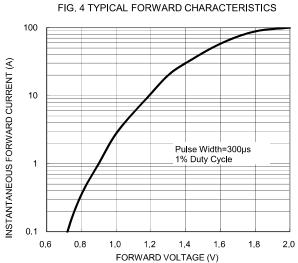
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











0.1

1000 900 (a) 800 700 600 500 400 300 200 0

10

REVERSE VOLTAGE (V)

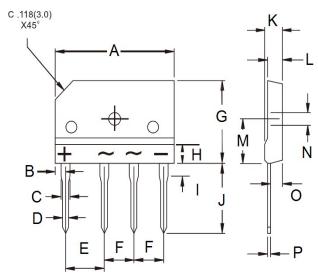
100

1000

FIG. 5- TYPICAL JUNCTION CAPACITANCE

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	
l	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	
Z	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



Taiwan Semiconductor

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Document Number: DS_D1410101 Version: K15