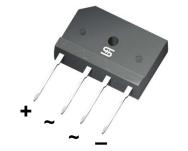


6A, 50V - 1000V Glass Passivated Bridge Rectifiers

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)

H	•	 		
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TS-6P

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	TS6P	TS6P	TS6P	TS6P	TS6P	TS6P	TS6P	UNIT
PARAIVIETER	STIVIBOL	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						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	
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	10 500						μA	
Typical thermal resistance	$R_{ heta JC}$	1.8						°C/W	
Operating junction temperature range	T _J	- 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 (*)			
TOODO		C2		TS-6P	15 / TUBE	
TS6P0xG (Note 1)	Н	X0	G	TS-6P	Forming	
(14010-1)		D2		TS-6P	15 / TUBE (Auto)	

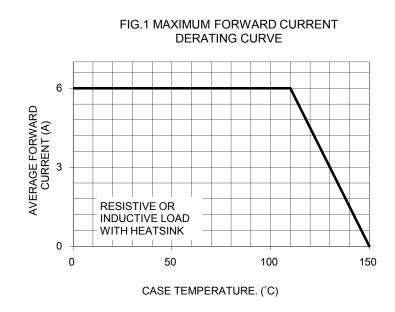
Note 1: "x" defines voltage from 50V (TS6P01G) to 1000V (TS6P07G)

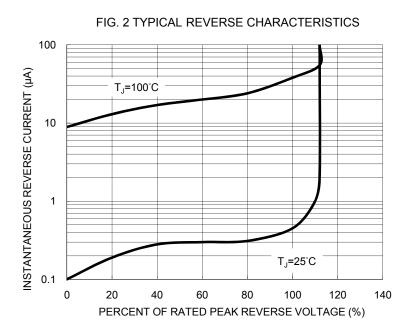
^{*:} Optional available

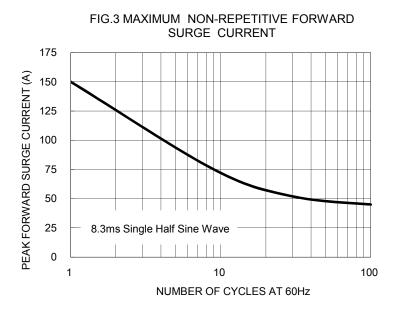
EXAMPLE							
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TS6P07GHC2G	TS6P07G	Н	C2	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







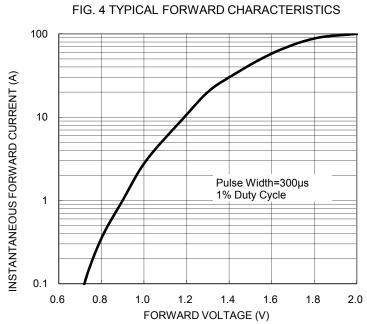
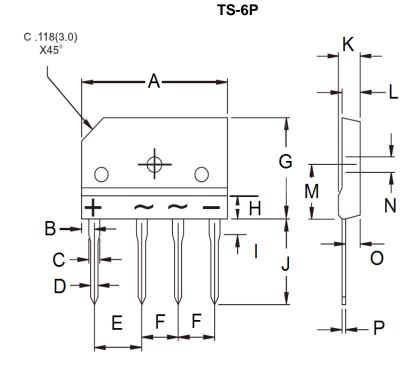




FIG. 5- TYPICAL JUNCTION CAPACITANCE 1000 900 f=1.0MHz Vsig=50mVp-p 800 JUNCTION CAPACITANCE (pF) 700 600 500 400 300 200 100 0 0.1 10 100 1000 REVERSE VOLTAGE (V)

PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIW.	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	
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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