

10A, 50V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Typical I_{R} less than $0.1 \mu A$
- 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

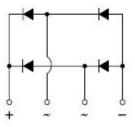
Molding compound, UL flammability classification rating 94V-0 Part no. with suffix "H" means AEC-Q101 qualified Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body **Mounting torque:** 8.17 in-lbs maximum **Weight:** 7.15 g (approximately)



TS-6P







		ICS (T _A =25°C unless otherwise noted) TS10P TS10P TS10P TS10P TS10P TS10P						TC10D	i
PARAMETER	SYMBOL	13100					13100	13100	UNIT
		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)}				10				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200			А				
Rating for fusing (t<8.3ms)	l ² t				166				A ² s
Maximum instantaneous forward voltage (Note 1) @ 5 A @ 10 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 _{θJC}				1.4				°C/W
Operating junction temperature range	TJ			-	55 to +15	50			°C
Storage temperature range	T _{STG}			-	55 to +15	50			°C

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



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ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
TS10P0xG (Note 1)	Н	C2		TS-6P	15 / TUBE	
		X0	G	TS-6P	Forming	
		D2		TS-6P	15 / TUBE (Auto)	

Note 1: "x" defines voltage from 50V (TS10P01G) to 1000V (TS10P07G)

*: Optional available

EXAMPLE							
PREFERRED PART NO.	PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TS10P07GHC2G	TS10P07G	Н	C2	G	AEC-Q101 qualified Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

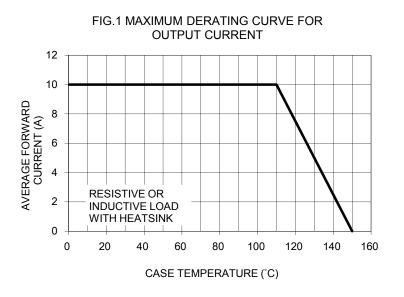


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

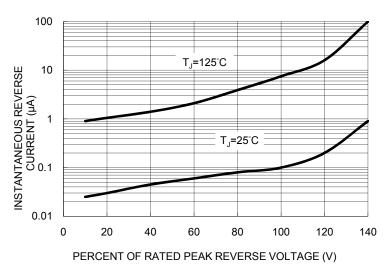


FIG. 2 MAXIMUM FORWARD SURGE CURRENT

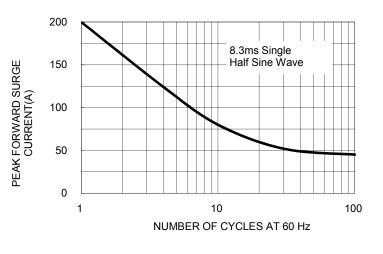
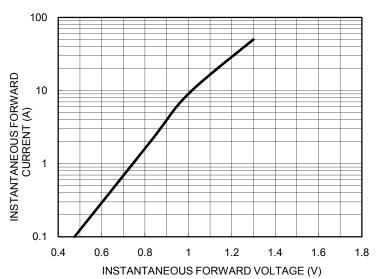


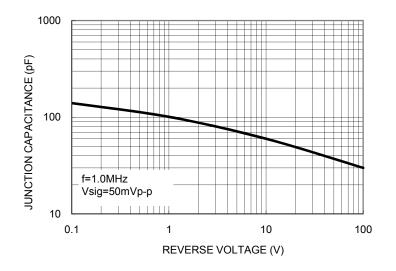
FIG. 4 TYPICAL FORWARD CHARACTERISTICS



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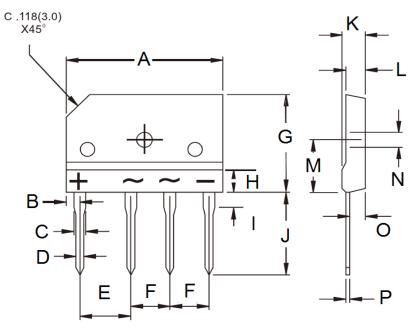


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS





DIM.	Unit	(mm)	Unit (inch)		
	Min Max		Min	Max	
А	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	
E	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	
-	3.80	4.20	0.150	0.165	
J	17.00	18.00	0.669	0.709	
К	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	
Ν	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



- = Specific Device Code
- = Green Compound
- = Date Code

P/N

YWW

G

F

= Factory Code



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