

25A, 50V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

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

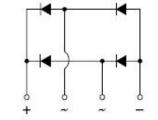
Molding compound, UL flammability classification rating 94V-0

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)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	TS25P	TS25P	TS25P	TS25P	TS25P	TS25P	TS25P	UNIT	
PARAMETER	STWIDUL	01G	02G	03G	04G	05G	06G	07G	UNII	
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)}		-		25	•			Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}				350				Α	
Rating for fusing (t<8.3ms)	l ² t				508				A ² s	
Maximum instantaneous forward voltage (Note 1) @ 12.5 A @ 25 A	V _F				1.0 1.1				V	
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	10 500			μΑ					
Typical thermal resistance	$R_{ heta JC}$				0.6				°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=300 μ s, 1% duty cycle



ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
TOOFDONO		C2		TS-6P	15 / TUBE	
TS25P0xG (Note 1)	Н	X0	G	TS-6P	Forming	
		D2		TS-6P	15 / TUBE	

Note 1: "x" defines voltage from 50V (TS25P01G) to 1000V (TS25P07G)

^{*:} Optional available

EXAMPLE						
EXAMPLE PART NO.	I PART NO. I		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TS25P07GHC2G	TS25P07G	П	C2	G	AEC-Q101 qualified Green compound	

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

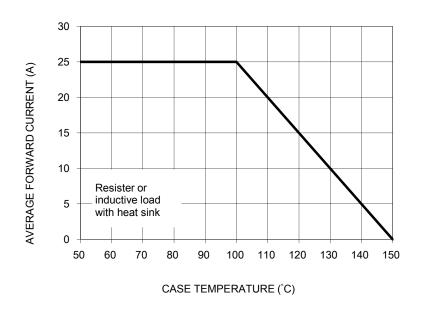


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

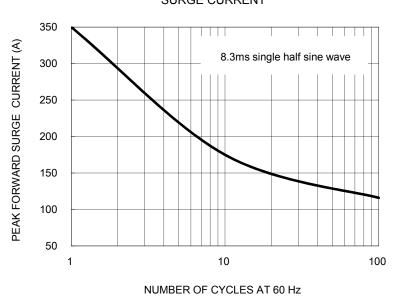


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

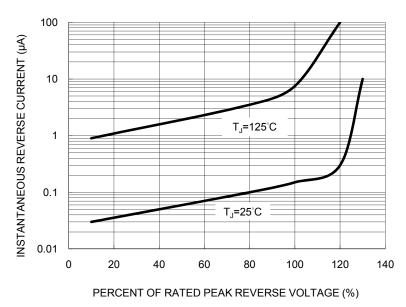
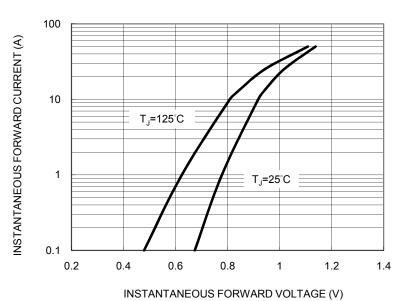


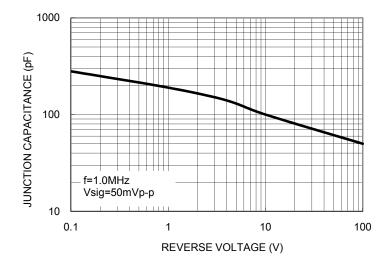
FIG. 4 TYPICAL FORWARD CHARACTERISTICS



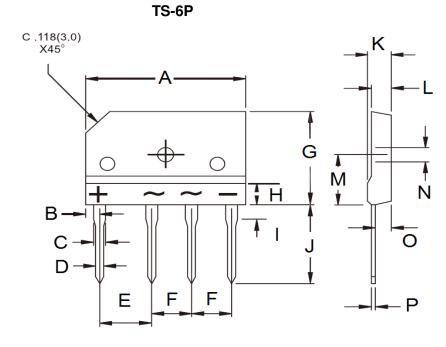
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FIG. 5 TYPICAL JUNCTION CAPACITANCE



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		
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		
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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