DB107S

Single Phase 1.0 AMP. Glass Passivated Bridge Rectifiers



GENERAL DESCRIPTION

Suitable for AC-to-DC bridge full wave rectification for SMPS, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

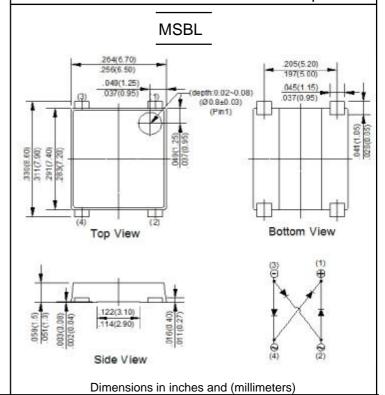
FEATURES

- · Compact, thin profile package design
- Ideal for SMT manufacturing
- Reliable robust construction
- UL recognized file#E364304

MECHANICAL DATA

- Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- Polarity indicator: As marked on body
- •Weight: 216 mg

REVERSE VOLTAGE - 1000 Volts FORWARD CURRENT - 1.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

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ICS	SYMBOL	DB107S	JNIT
е	Vrrm	1000	V
	VRMS	700	V
	VDC	1000	V
	I(AV)	1.0	А
@T c =110°C			
@ 8.3ms	IFSM	30	А
@ 1.0A DC	VF	1.1	V
@TJ=25°C	lr	10	μΑ
@T J=125°C		500	μΛ
(Note 1)	CJ	25	pF
	l ² t	10.4	l ² t
	Reja	40	
	TJ	-55 to +150	$^{\circ}$
	Тѕтс	-55 to +150	$^{\circ}$
	@T c =110°C @ 8.3ms @ 1.0A DC @TJ=25°C @T J=125°C	© T c =110°C © T c =110°C © 8.3ms IFSM © 1.0A DC © T J=25°C © T J=125°C (Note 1) CJ I²t ReJA TJ	Per VRRM 1000 VRMS 700 VDC 1000 UCT C =110°C @ 8.3ms IFSM 30 @ 1.0A DC VF 1.1 @TJ=25°C IR 500 (Note 1) CJ 25 (Note 1) CJ 25 RejA 40 TJ -55 to +150

NOTES:(1). Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- (2). Thermal Resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.
- (3). The typical data above is for reference only.

RATING AND CHARACTERISTIC CURVES **DB107S**

