

UM1B-AT THRU UM10B-AT

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

Forward Current-0.8A

Reverse Voltage-100V to 1000V

FEATURES

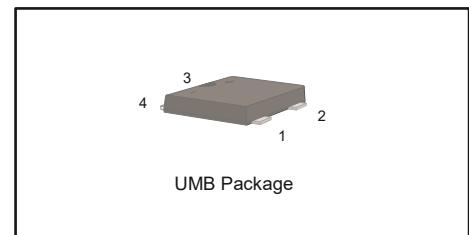
- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ High surge current capability

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

MECHANICAL DATA

- ◆ Case: UMB molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.045 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	UM1B-AT	UM2B-AT	UM4B-AT	UM6B-AT	UM8B-AT	UM10B-AT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _C =115°C	I _{F(AV)}					0.8		A
Peak Forward Surge Current (Note1)	I _{FSM}					25		A
Maximum Forward Voltage at 0.8A	V _F					1.1		V
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =125°C	I _R				3	30		uA
Typical Junction Capacitance (Note2)	C _J				13			pF
Typical Thermal Resistance (Note3)	R _{θJA}				110			°C/W
Operating and Storage Temperature Range	T _J , T _{STG}				-55 to +150			°C

Notes:1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured at 1MHz and applied reverse voltage of 4 V D.V.

3. Mounted on 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

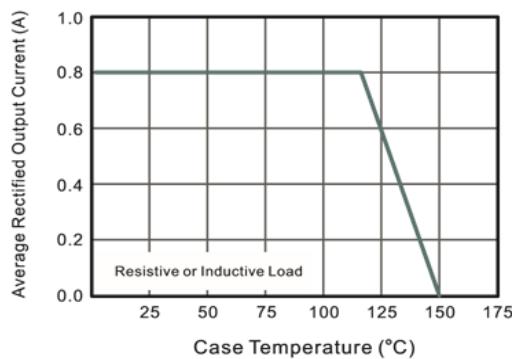


Fig.2 Typical Reverse Characteristics

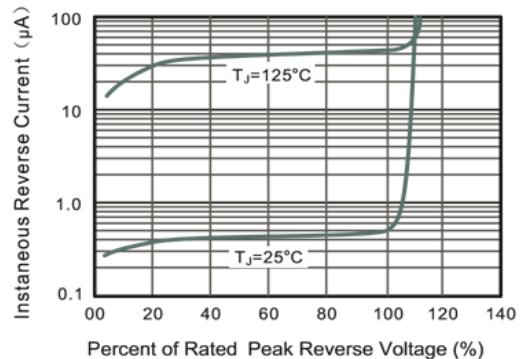


Fig.3 Typical Instantaneous Forward Characteristics

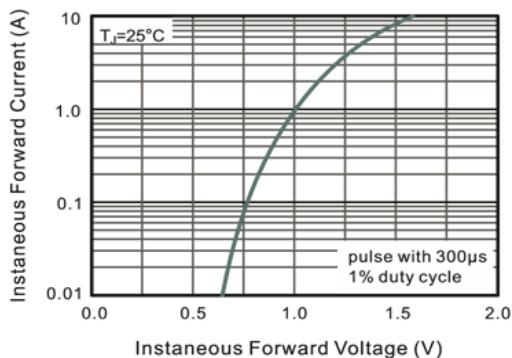


Fig.4 Typical Junction Capacitance

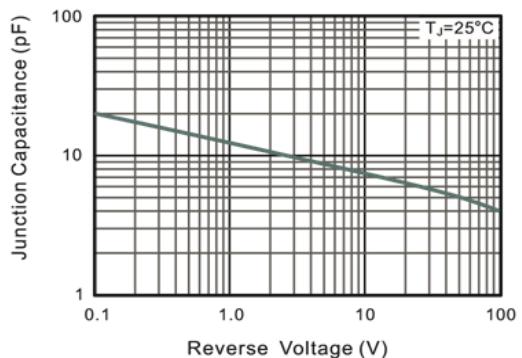
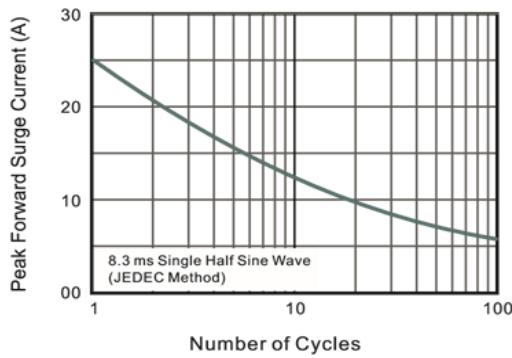


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

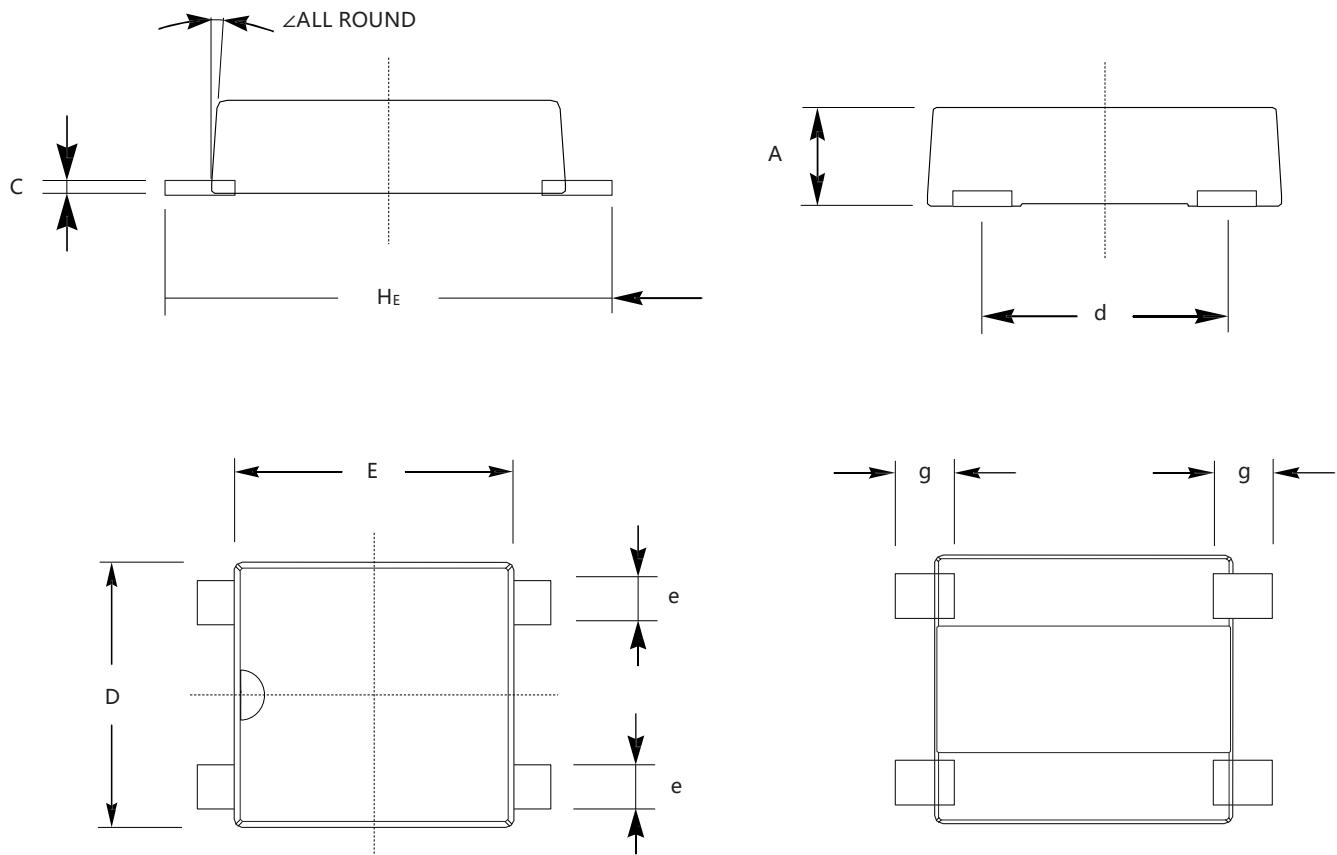


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PACKAGE OUTLINE

UMB



UMB mechanical data

UNIT		A	C	D	E	H_E	g	d	e	\angle
mm	max	1.2	0.20	3.8	4.0	5.1	0.82	2.7	0.7	7°
	min	1.0	0.12	3.4	3.6	4.6	0.51	2.3	0.5	
mil	max	47	7.9	150	157	201	32	106	28	7°
	min	39	4.7	134	142	181	20	91	20	

ORDERING INFORMATION

Device	Package	Shipping
UM1B-AT thru UM10B-AT	UMB	3,000/Tape & Reel (11 inches)
		5,000/ Tape & Reel (13 inches)

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