



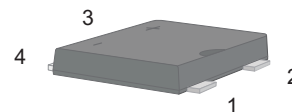
UM1B-PJ~UM10B-PJ

Surface Mount Glass Passivated Bridge Rectifiers

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000V
- High Surge Current Capability
- Designed for Surface Mount Application

UMB



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

Marking Code:

UM1B-PJ: UM1B
UM2B-PJ: UM2B
UM4B-PJ: UM4B
UM6B-PJ: UM6B
UM8B-PJ: UM8B
UM10B-PJ: UM10B

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 derate by 20 %.

Parameter		Symbols	UM1B-PJ	UM2B-PJ	UM4B-PJ	UM6B-PJ	UM8B-PJ	UM10B-PJ	Units
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 Rectified Output Current at T _C =125°C		I _O	0.8						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	25						A
Maximum Forward Voltage	I _F =0.4A	V _F	1.0						V
	I _F =0.8A		1.1						
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	3						μA
	T _A =125°C		30						
Typical Junction Capacitance ^{Note1}		C _J	13						pF
Typical Thermal Resistance ^{Note2}		R _{θJA}	110						°C/W
Junction Temperature		T _J	150						°C
Storage Temperature Range		T _{STG}	-55 to +150						°C

Note:

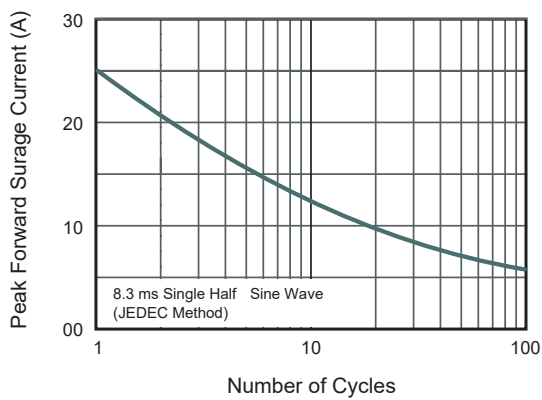
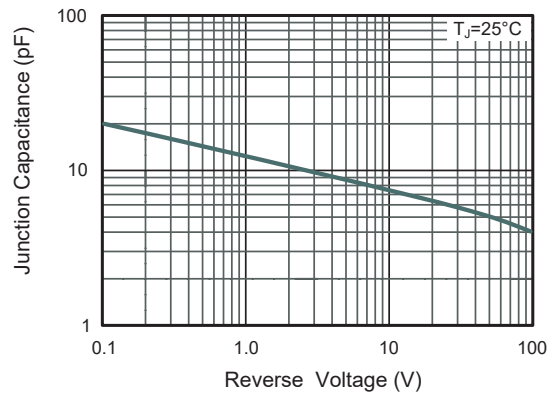
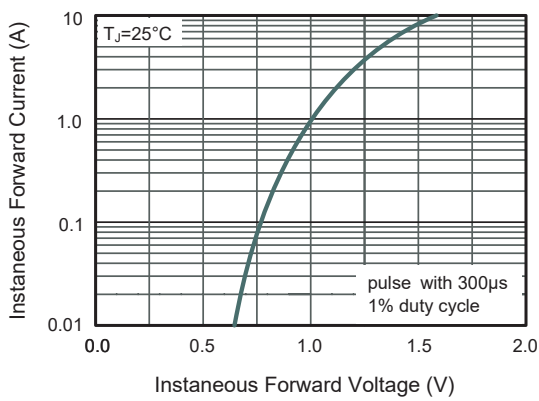
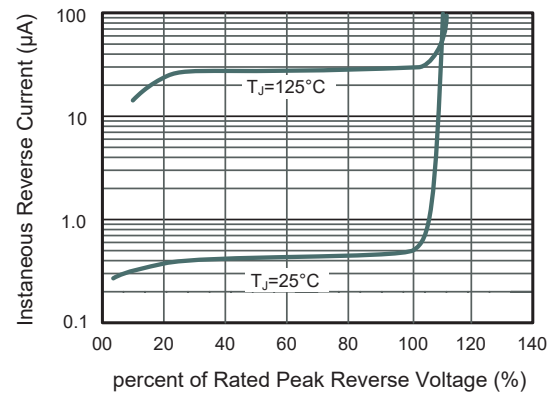
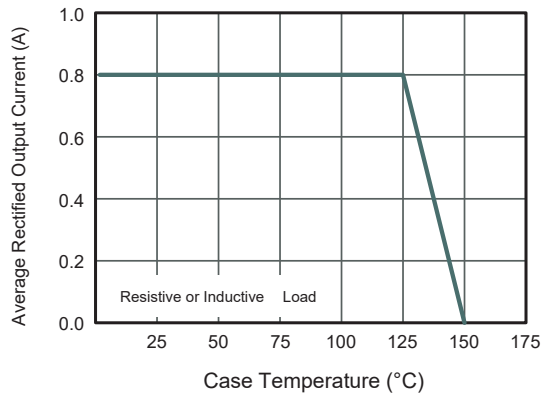
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



UM1B-PJ~UM10B-PJ

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Typical Characteristic Curves





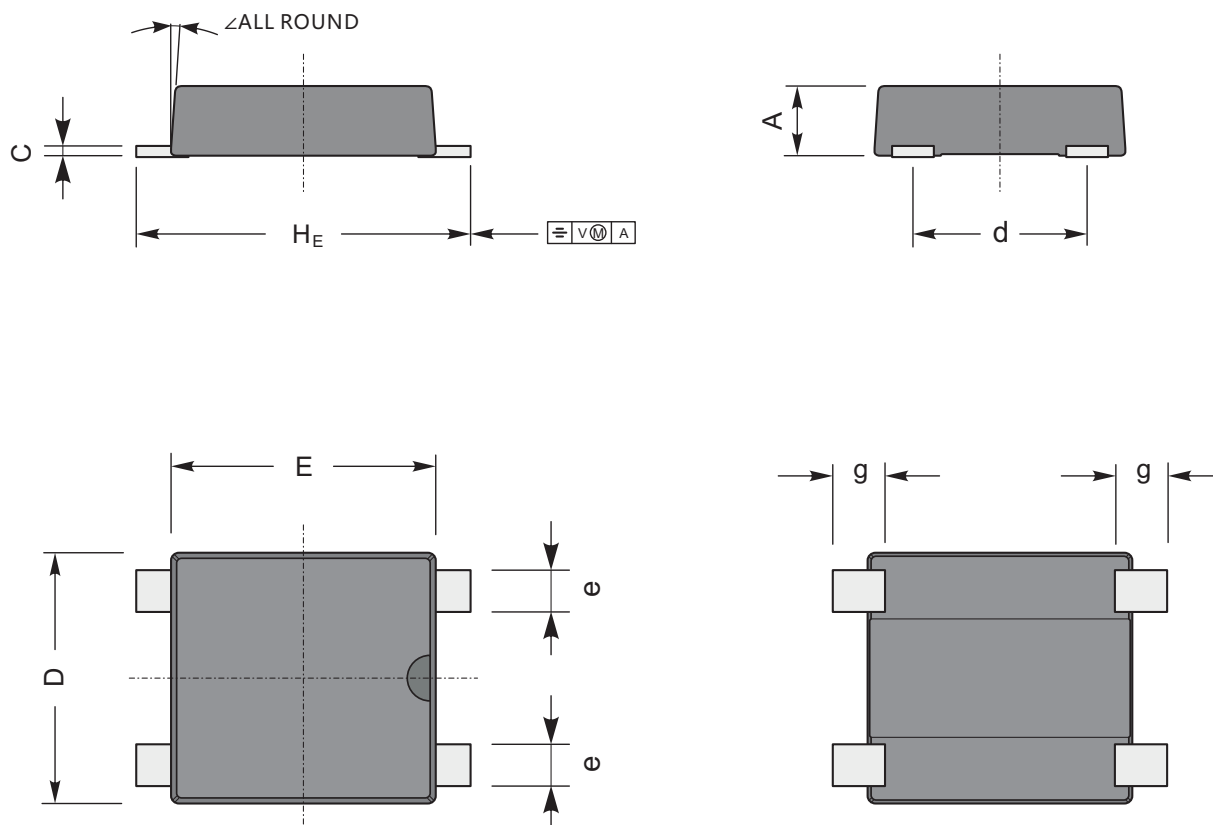
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Package Outline

UMB

Dimensions in mm



UNIT		A	C	D	E	H _E	g	d	e	∠
mm	max	1.2	0.20	3.8	4.0	5.1	0.82	2.7	0.70	7°
	min	1.0	0.12	3.4	3.6	4.6	0.51	2.3	0.51	
mil	max	47	7.9	150	157	201	32	106	28	
	min	39	4.7	134	142	181	20	91	20	