



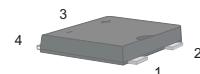
## 2A SURFACE MOUNT SCHOTTKY BRIDGE

### FEATURES:

- Reverse Voltage - 40 to 200 V
- Forward Current - 2 A
- High Surge Current Capability
- Designed for Surface Mount Application

### PINNING

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



UMB Package

### MECHANICAL DATA

- Case: UMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 45mg/0.0016oz

### Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	UMB24	UMB26	UMB28	UMB210	UMB220	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	60	80	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	28	42	56	70	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	60	80	100	200	V
Maximum Average Forward Rectified Current @ Fig.1	I <sub>F(AV)</sub>			2.0			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>		50		40		A
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>		100		80		A
I <sup>2</sup> t Rating for fusing (3ms≤t≤8.3ms)	I <sup>2</sup> t		10.3		6.6		A <sup>2</sup> S
Max Instantaneous Forward Voltage at 2 A	V <sub>F</sub>	0.55	0.70		0.85		V
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>	0.5 10		0.3 5			mA
Typical Junction Capacitance <sup>(1)</sup>	C <sub>j</sub>	93	70	55	35		pF
Typical Thermal Resistance <sup>(2)</sup>	R <sub>θJA</sub> R <sub>θJC</sub> R <sub>θJL</sub>			45 15 25			°C/W
Operating Junction Temperature Range	T <sub>j</sub>			-55 ~ +125			°C
Storage Temperature Range	T <sub>stg</sub>			-55 ~ +150			°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

(2) P.C.B. mounted with 4 X 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.



Fig.1 Forward Current Derating Curve

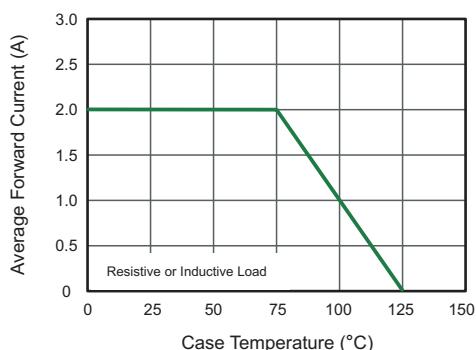


Fig.2 Typical Reverse Characteristics

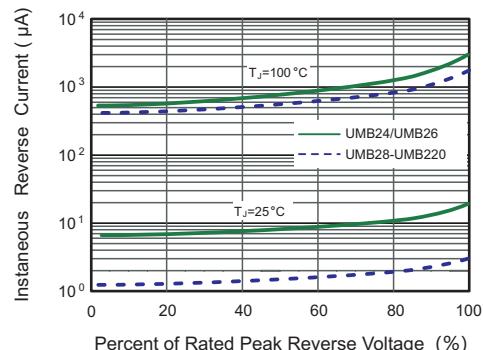


Fig.3 Typical Forward Characteristic

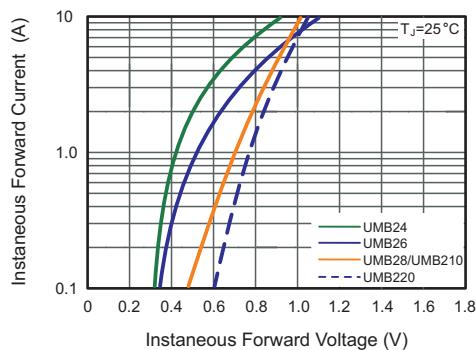


Fig.4 Typical Junction Capacitance

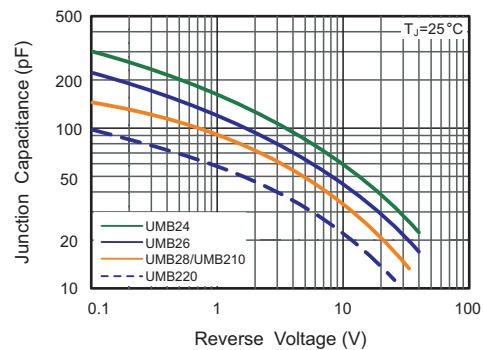
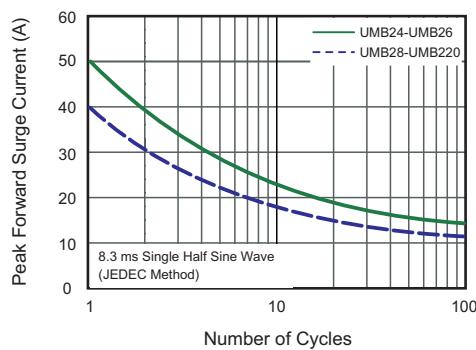


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

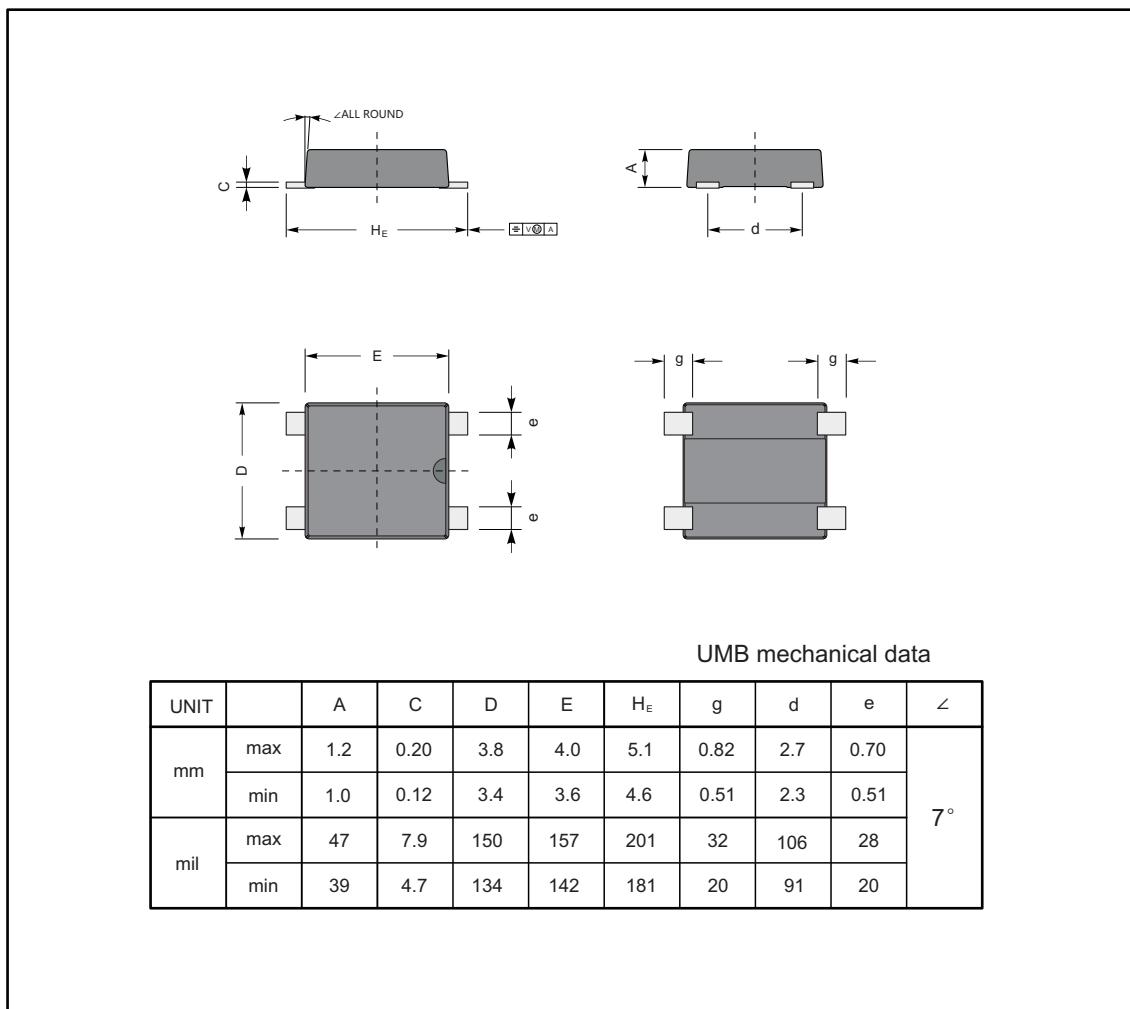




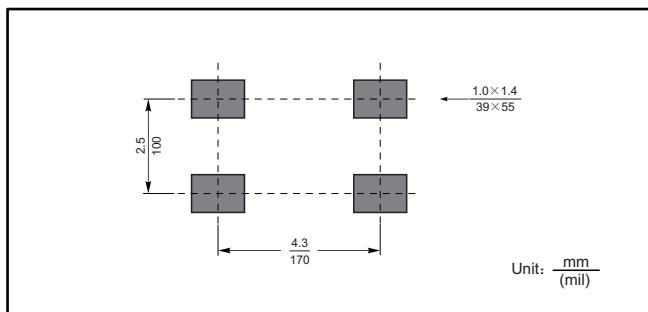
## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

UMB



## The recommended mounting pad size



## Marking

Type number	Marking code
UMB24	MB24
UMB26	MB26
UMB28	MB28
UMB210	MB210
UMB220	MB220



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