

**1A SURFACE MOUNT SCHOTTKY BRIDGE**
**RECTIFIER Reverse Voltage - 40 to 200 V**
**Forward Current - 1A**
**FEATURES**

- ◆High current capability
- ◆Low forward voltage drop
- ◆Low power loss, high efficiency
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

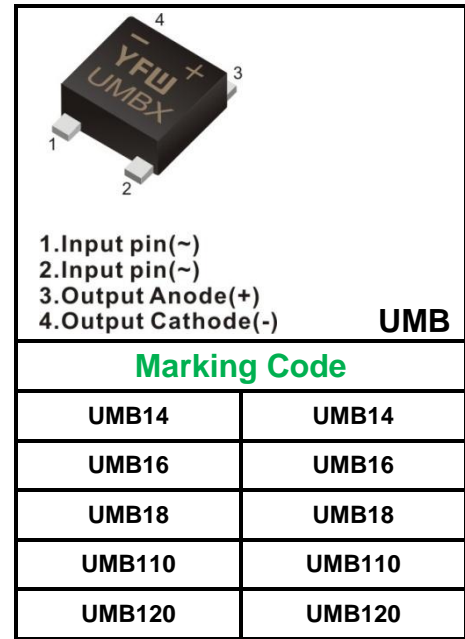
**MECHANICAL DATA**

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

**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 %.



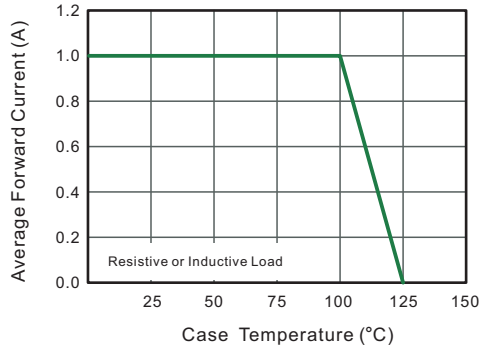
Parameter	Symbols	UMB14	UMB16	UMB18	UMB110	UMB120	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	60	80	100	200	V
Maximum RMS voltage	$V_{RMS}$	28	42	56	70	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	80	100	200	V
Average Rectified Output Current	$I_{F(AV)}$	1					A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	$I_{FSM}$	40		30			A
Max Instantaneous Forward Voltage at 1 A	$V_F$	0.55	0.70	0.85	0.90		V
Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	$I_R$	0.3 10		0.2 5	0.1 2		$\mu A$
Typical Junction Capacitance <sup>(Note1)</sup>	$C_j$	220	80				pF
Typical Thermal Resistance <sup>(Note2)</sup>	$R_{\theta JA}$	100					$^{\circ}C/W$
Operating and Storage Temperature Range	$T_j$	-55 ~ +125					$^{\circ}C$
Storage Temperature Range	$T_{stg}$	-55 ~ +150					$^{\circ}C$

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

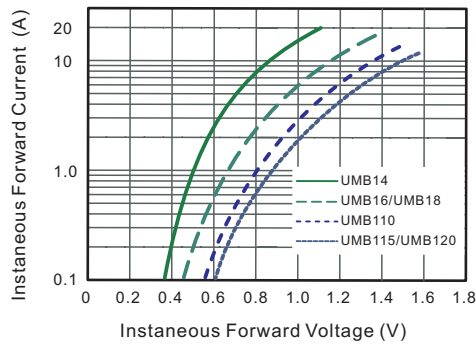
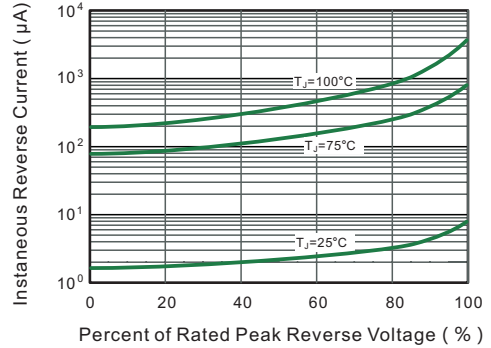
(2) Mounted on glass epoxy PC board with 4x1.5"x1.5" (3.81x3.81 cm) copper pad.

**Ratings And Characteristic Curves**

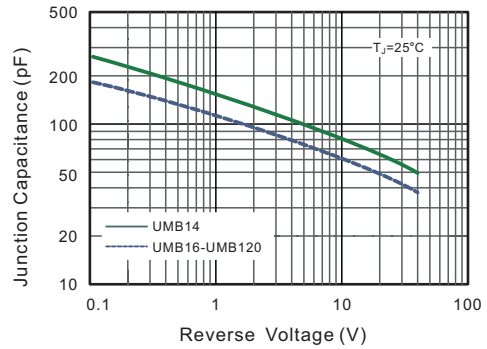
**Fig.1 Forward Current Derating Curve**



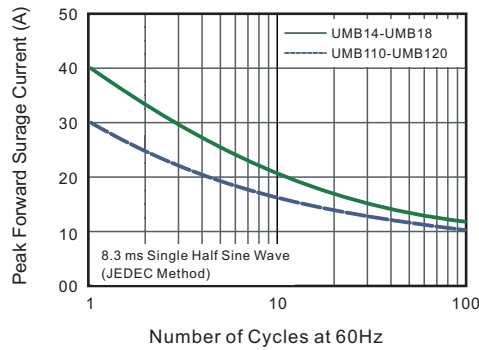
**Fig.2 Typical Reverse Characteristics**



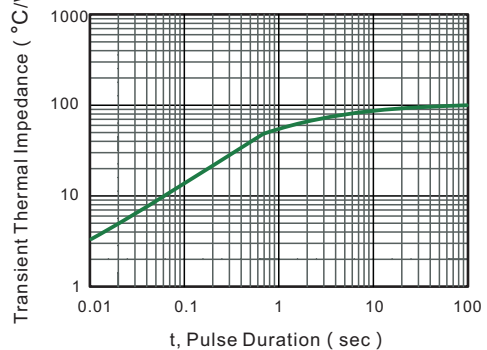
**Fig.4 Typical Junction Capacitance**



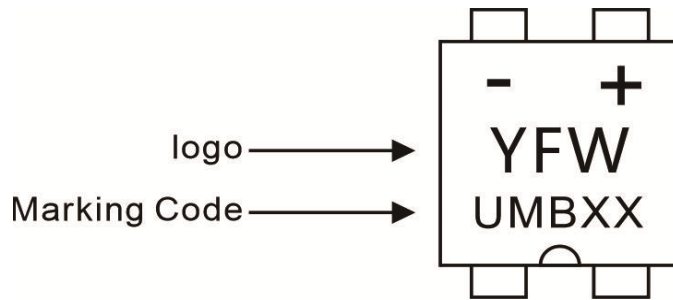
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.6- Typical Transient Thermal Impedance**



Marking Diagram



Ordering information

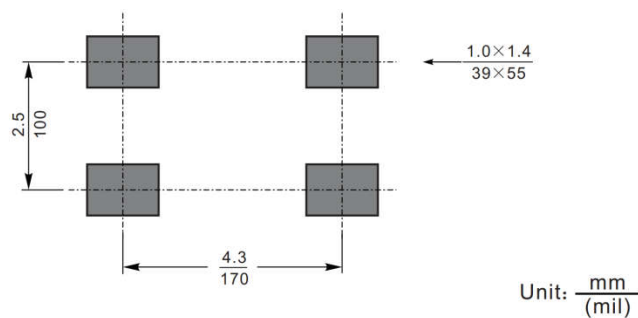
Package	Packing Description	Packing Quantity
UMB	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

UMB

Dim.	Millimeter(mm)		(mil)	
	Min.	Max.	Min.	Max.
A	1.0	1.2	39	47
C	0.12	0.20	4.7	7.9
D	3.4	3.8	134	150
E	3.6	4.0	142	157
HE	4.6	5.1	181	201
g	0.51	0.82	20	32
d	2.3	2.7	91	106
e	0.51	0.70	20	28
∠	7°			

The recommended mounting pad size



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