



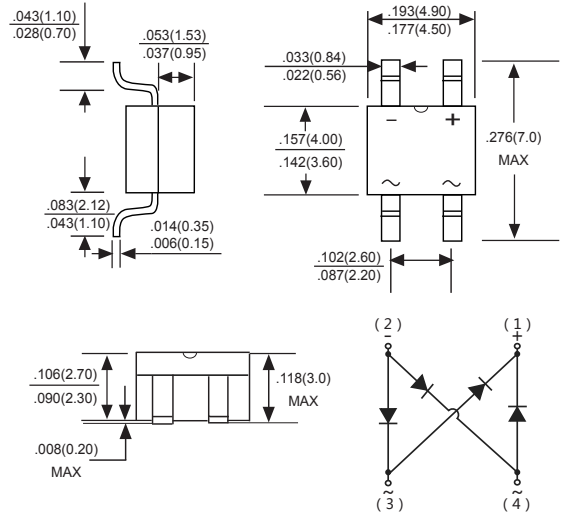
UMB1S THRU UMB10S

Voltage Range - 100 to 1000 V olts Current - 1.0 Ampere

GLASS PASSIVATED ULTRA FAST RECOVERY BRIDGE RECTIFIERS

Features

- ◆ Glass Passivated Chip Junction
- ◆ Reverse Voltage - 100 to 1000 V
- ◆ Forward Current - 1.0 A
- ◆ Fast reverse recovery time
- ◆ Designed for Surface Mount Application



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC MBS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0035 ounce, 0.1 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

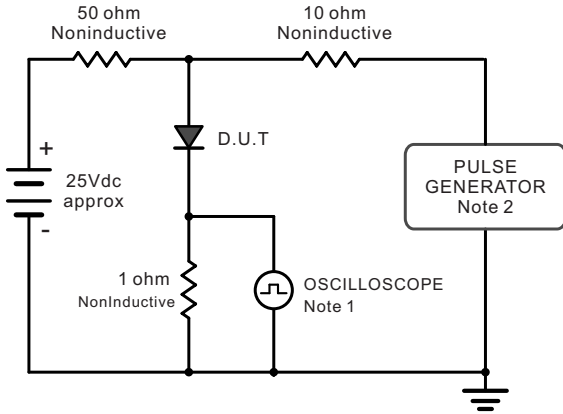
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD UMB1S	MDD UMB2S	MDD UMB4S	MDD UMB6S	MDD UMB8S	MDD UMB10S	UNITS
Marking Code								
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
Average Rectified Output Current at $T_c = 125^\circ C$	$I_{F(AV)}$	1.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35						A
Maximum instantaneous forward voltage drop per leg at 1.0A	V_F	1.0	1.3	1.5			V	
Maximum DC reverse current at rated DC blocking voltage	I_R	5 100						μA
Typical Junction Capacitance (NOTE 1)	C_J	18						pF
Maximum reverse recovery time (NOTE 3)	t_{rr}	50			75			ns
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JC}$	80 30						$^\circ C/W$
Operating temperature range	T_J	-55 to +150						$^\circ C$
storage temperature range	T_{STG}	-55 to +150						$^\circ C$

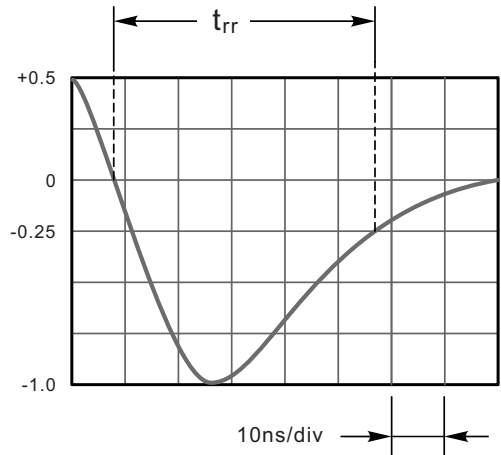
NOTES: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C..
 2. Mounted on glass epoxy PC board with 4x1.5"x1.5" (3.81x3.81 cm) copper pad.
 3. Reverse recovery condition $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$.

Ratings And Characteristic Curves

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max.
Input Impedance = 1megohm, 22pF.
2. Fall Time = 10ns, max.
Source Impedance = 50 ohms.



Set time Base for 10ns/div

Fig.2 Maximum Average Forward Current Rating

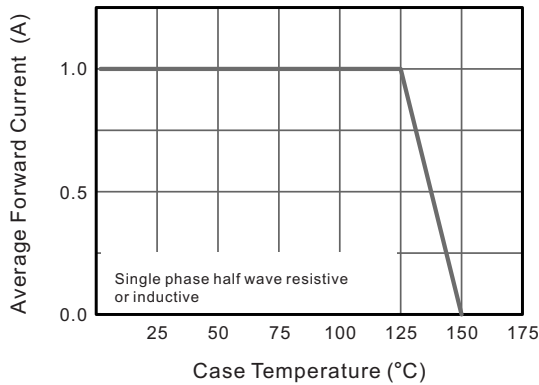


Fig.3 Typical Reverse Characteristics

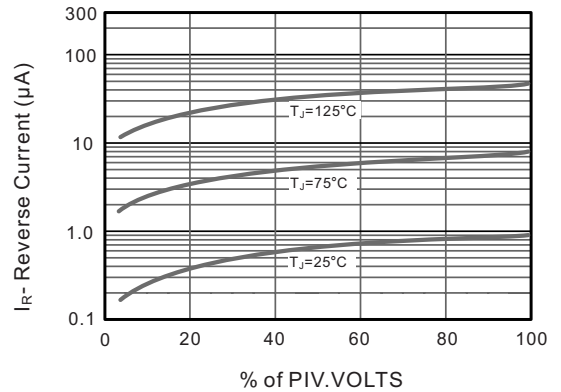


Fig.3 Typical Instaneous Forward Characteristics

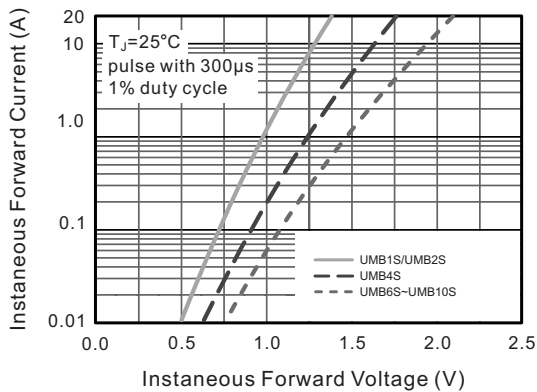
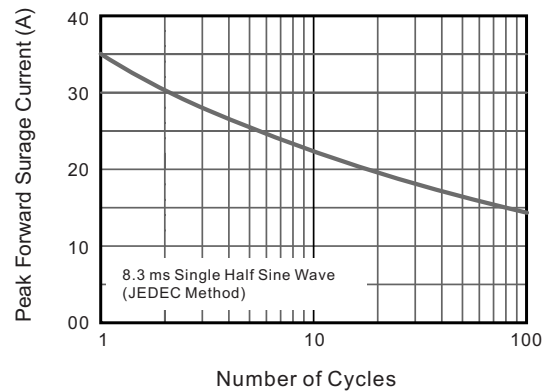


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

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