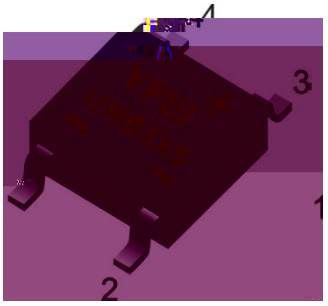
UMB1S THRU UMB10S MBS

1.0A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V

Forward Current 1.0A



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

MBS

FEATURES

- Fast reverse recovery time
- Designed for Surface Mount Application
- Glass Passivated Chip Junction
- Low power loss, high efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: MBS
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 100mg / 0.0035oz

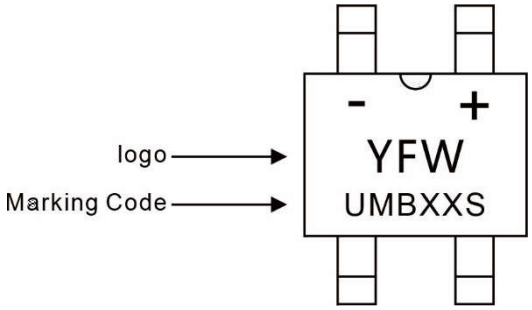
Maximum Ratings and Electrical characteristics

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	UMB1S	UMB2S	UMB4S	UMB6S	UMB8S	UMB10S	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
Average Rectified Output Current at T_c = 125 °C	I_o	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	35						A
Forward Voltage per element at 1.0A	V_F	1.0		1.3	1.5			V
Maximum DC Reverse Current @T_A=25°C at Rated DC Blocking Voltage @T_A=125°C	I_R	5.0 100						
Typical Junction Capacitance Note1	C_j	18						pF
Maximum Reverse Recovery Time Note2	T_{RR}	50			75			nS
Typical Thermal Resistance Note3	$R_{\theta JA}$ $R_{\theta JC}$	80 30						°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150						°C

Marking Diagram

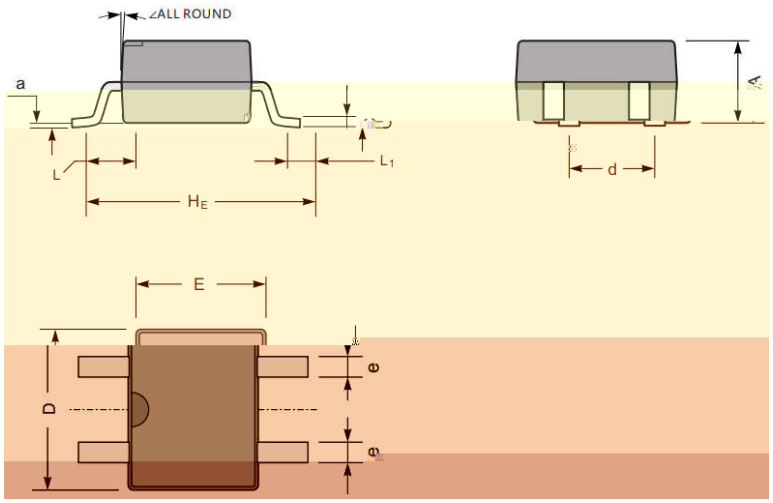


Ordering information

Package	Packing Description	Packing Quantity
MBS	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton

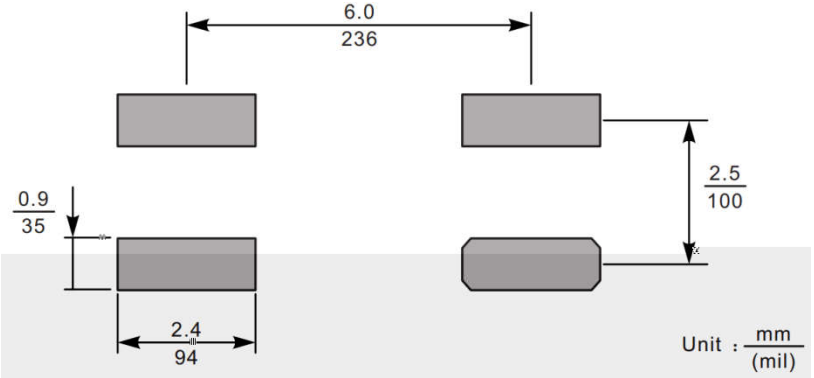
Package Dimensions

MBS



Dim.	Millimeter(mm)		(mil)	
	Min.	Max.	Min.	Max.
A	2.2	2.6	94	102
C	0.15	0.22	5.9	8.7
D	4.5	5.0	177	197
E	3.6	4.1	142	161
HE	6.4	7.0	252	276
d	2.3	2.7	91	106
e	0.5	0.7	20	28
L	1.3	1.7	51	67
L1	0.5	1.1	20	43
a	/	0.2	/	8
∠	7°			

The recommended mounting pad size



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