



1A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

Forward Current - 1A

FEATURES

♦Glass Passivated Chip Junction

♦High Surge Current Capability

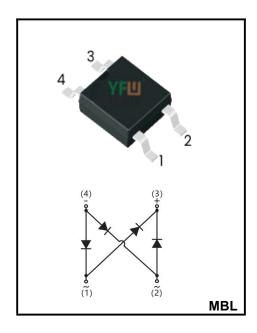
Designed for Surface Mount Application

MECHANICAL DATA

♦Case: MBL

♦Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 75mg/0.0026oz



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	MBL1	MBL2	MBL4	MBL6	MBL8	MBL10	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 Forward Rectified Current @ Fig.1	I _{F(AV)}	1.0					А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35					А	
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	70				А		
I²t Rating for fusing (3ms≤t≤8.3ms)	l²t	5.0				A ² S		
Max Instantaneous Forward Voltage at 1 A	V _F	1.1				V		
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I _R	5 100				μА		
Typical Junction Capacitance (1)	C _j	7			pF			
Typical Thermal Resistance (2)	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \end{array}$	45 15 25				°C/W		
Operating and Storage Temperature Range	Tj	-55 ~ +150				°C		
Storage Temperature Range	T _{stg}	-55 ~ +150					°C	

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

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⁽²⁾ Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.



Fig.1 Average Rectified Output Current Derating Curve

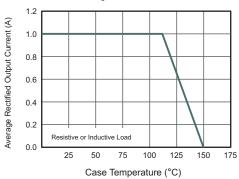


Fig.3 Typical Forward Characteristic

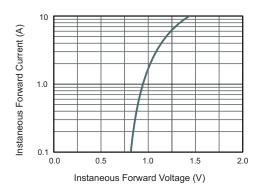


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

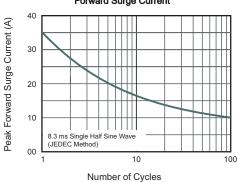


Fig.2 Typical Instaneous Reverse Characteristics

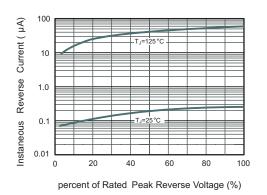
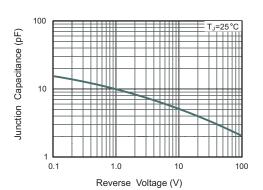
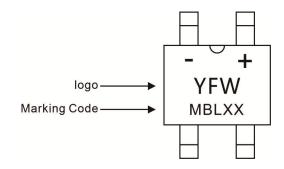


Fig.4 Typical Junction Capacitance





Marking Diagram

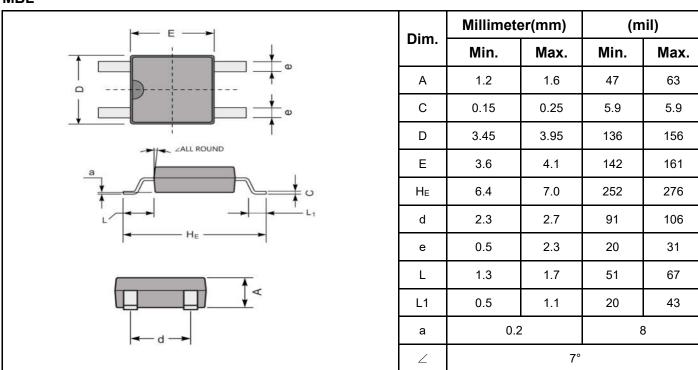


Ordering information

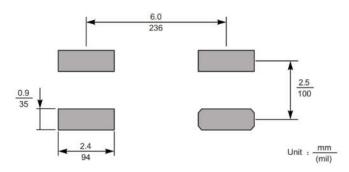
Package	Packing Description	Packing Quantity			
MBL	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton			

Package Dimensions

MBL



The recommended mounting pad size





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