



Bridge Rectifiers

Reverse Voltage 600V-1000v

Forward current-0.5A

Features

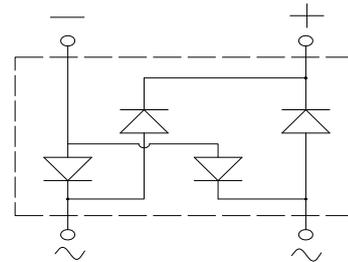
Glass passivated chip

High surge current capability

Ideal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



Mechanical Data

Package: MBS

Terminals: Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant

Maximum Ratings (Ta=25°C Unless otherwise specified)

Type Number	SYMBOL	MB6S	MB8S	MB10S	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L = 100^\circ\text{C}$	$I_{O(AV)}$	0.5			A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	25.0			A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$		50.0			
Current squared time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	2.6			A^2S
Maximum Forward Voltage at 0.5A DC	V_{FM}	1.1			V
Maximum Reverse Current $T_A = 25^\circ\text{C}$	IR	5			uA
at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$		100			
Typical Junction Capacitance	CJ	17			pF
Typical Thermal Resistance Between junction and ambient	R_{QJa}	76.0			$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55to+150			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55to+150			$^\circ\text{C}$



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

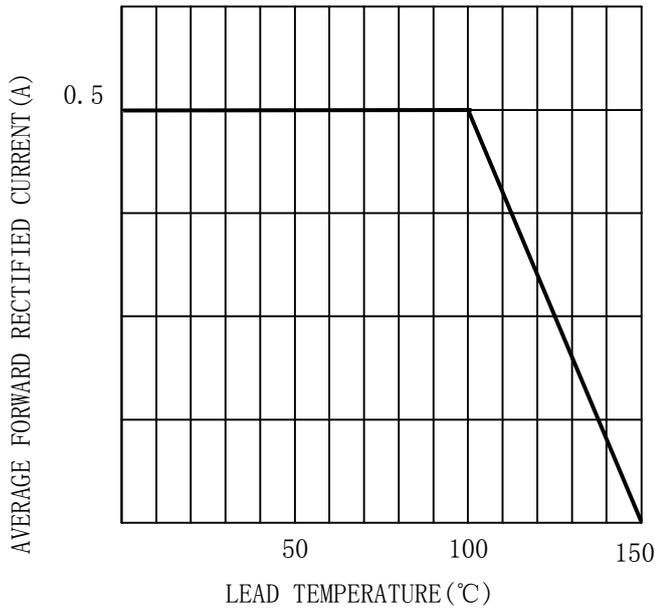


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

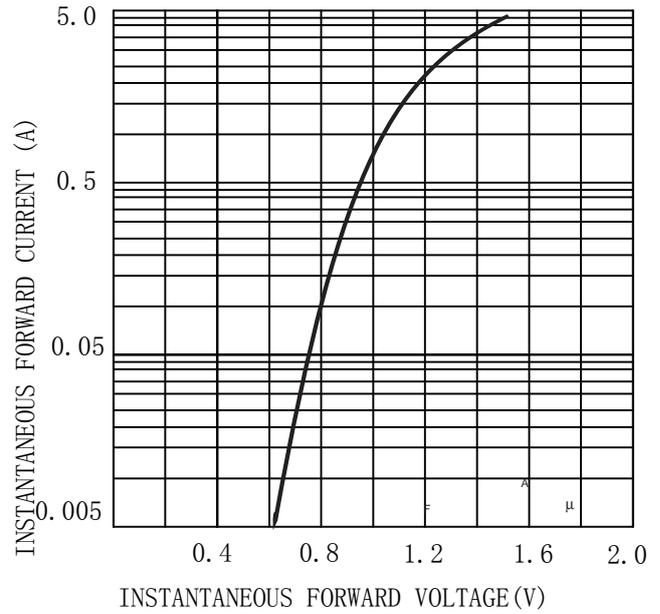


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

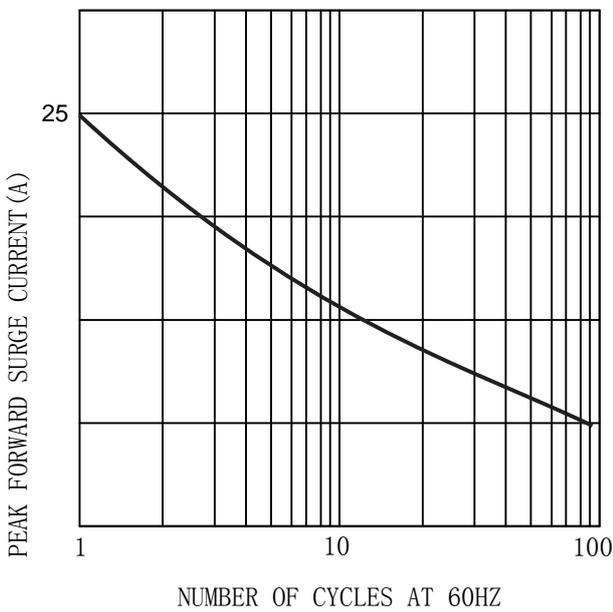
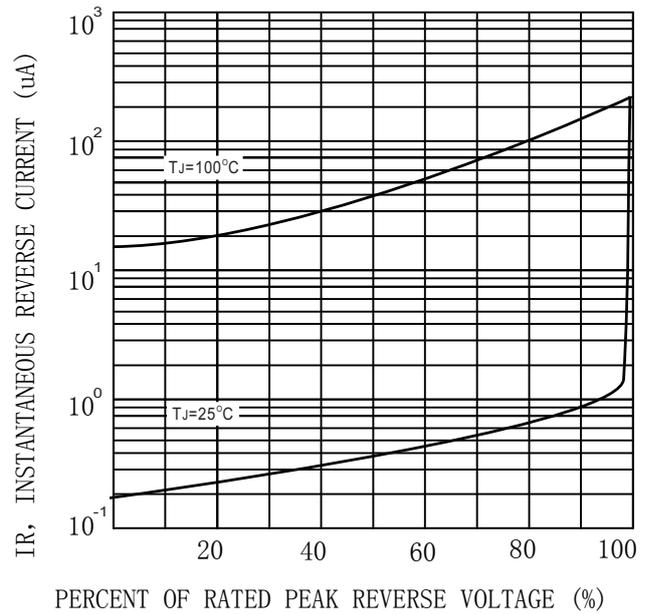
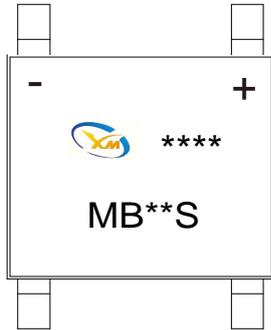


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION

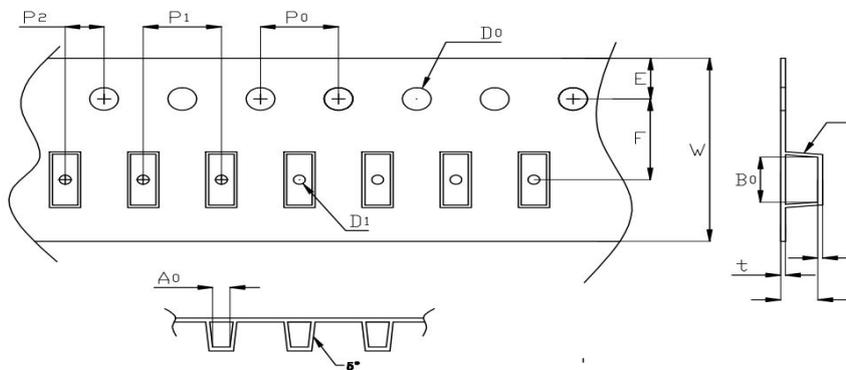


- = Logo
- **** = Date Code Marking
- MB**S = Marking Code

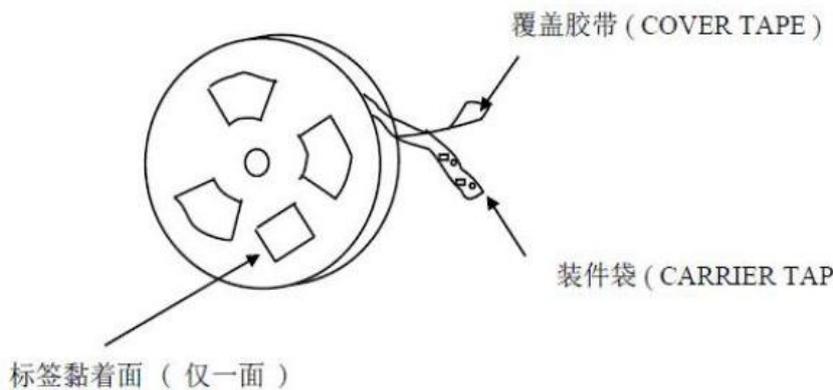
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



Specificati ons	Carrier tape type	Ao	Bo	Ko	Po	W
MBS	Anti-static	5.3± 0.10	7.4± 0.10	3.0± 0.10	4.00± 0.10	12.0± 0.10

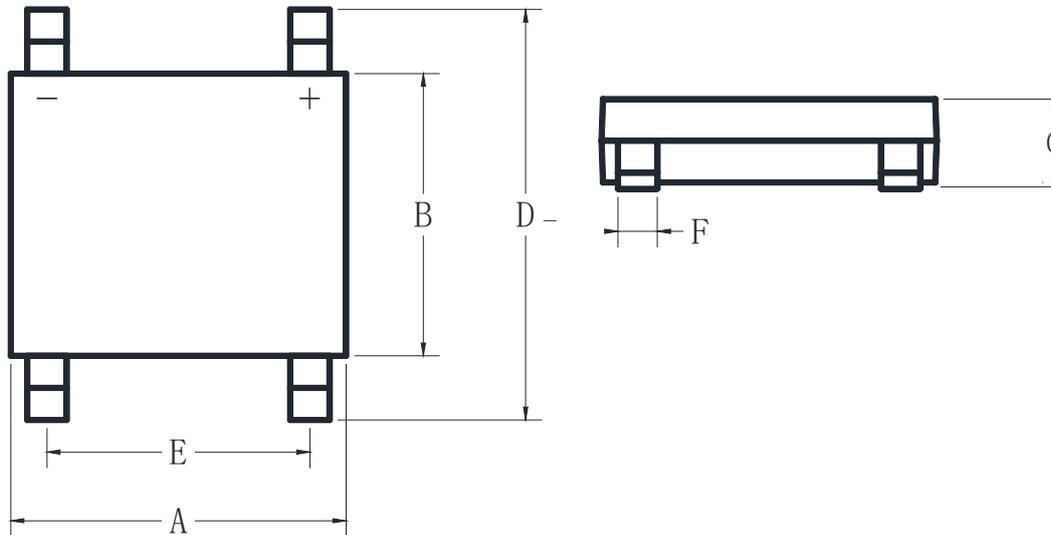


DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
MBS	12mm	3000	20	60000



Outline Dimensions

MBS



MBS				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.18	0.20	4.5	5.1
B	0.14	0.16	3.6	4
C	0.09	0.11	2.3	2.7
D	0.24	0.30	6	7.5
E	0.08	0.12	2	3
F	0.02	0.04	0.4	1



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