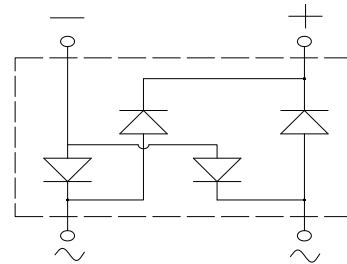




**Bridge Rectifiers**  
**Reverse Voltage 600V-1000v**  
**Forward current-1A**

**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 TL = 100 °C	$I_{O(AV)}$	1.0			A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	35.0			A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		70.0			
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	$I^2t$	5.1			A <sup>2</sup> S
Maximum Forward Voltage at 1.0A DC	$V_{FM}$	1.1			V
Maximum Reverse Current TA = 25°C	IR	5			uA
at Rated DC Blocking Voltage TA = 100°C		100			
Typical Junction Capacitance	CJ	17			pF
Typical Thermal Resistance Between junction and ambient	$R_{QJa}$	76.0			°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55to+150			°C
Storage Temperature Range	T <sub>STG</sub>	-55to+150			°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

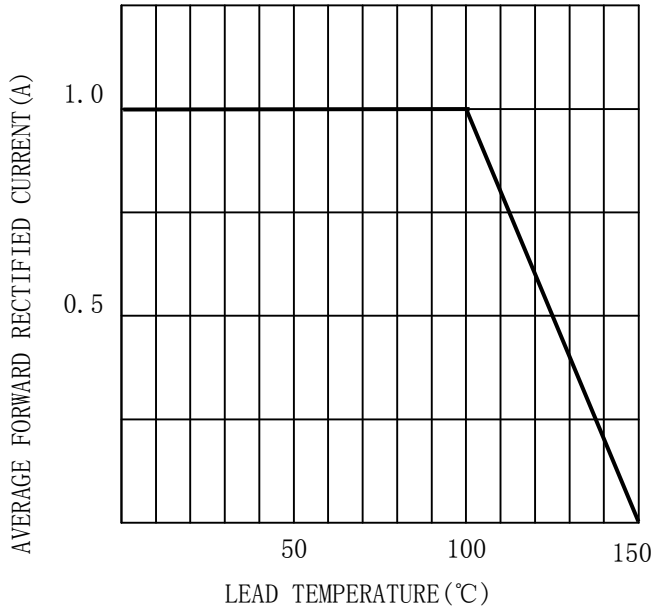


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

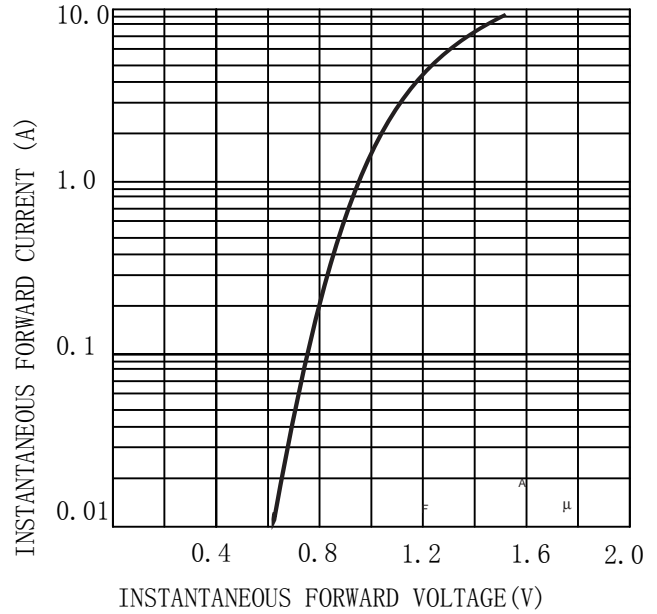


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

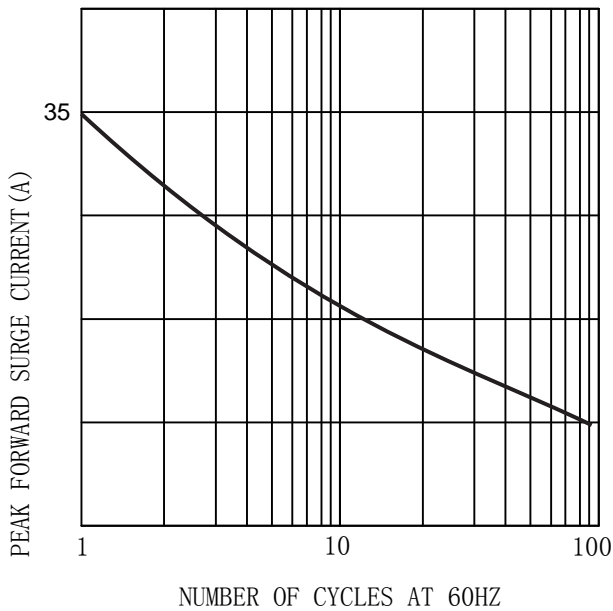
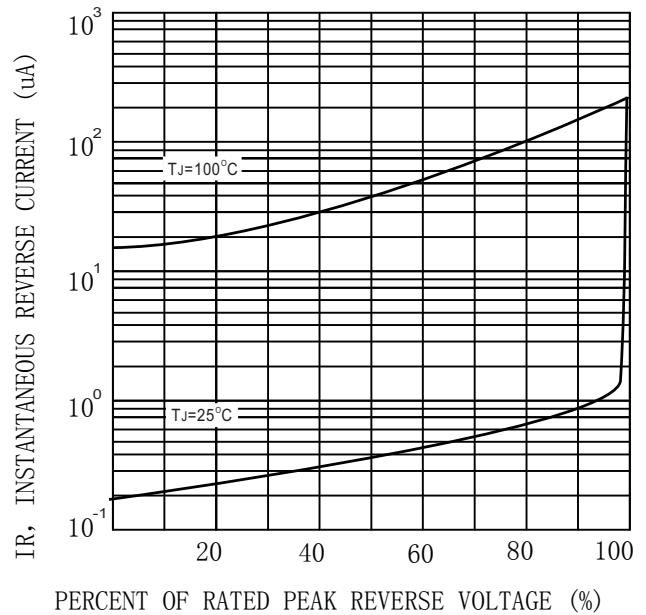
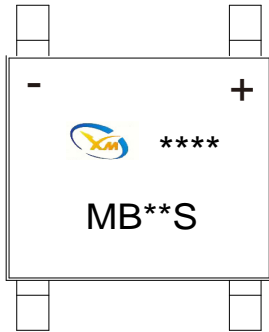


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



= Logo

\*\*\*\*

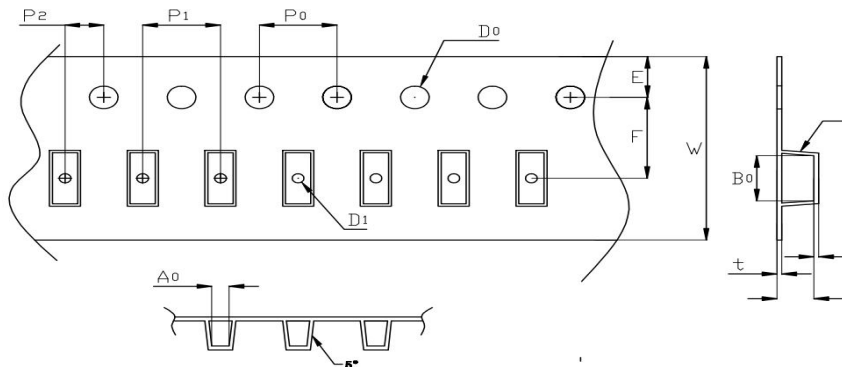
= Date Code Marking

MB\*\*S = Marking Code

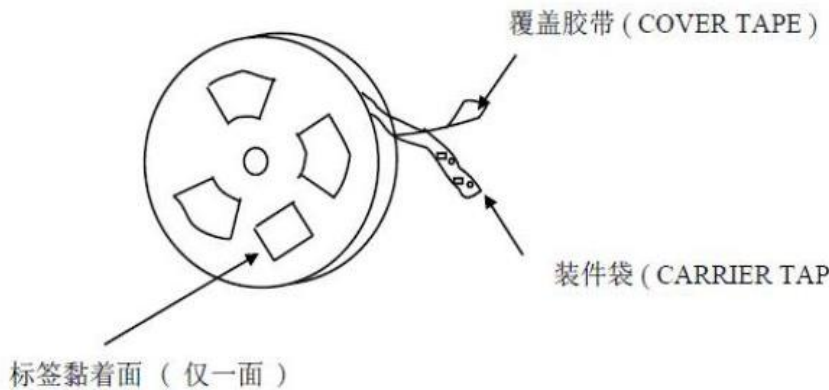
Print according to customer request

## 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

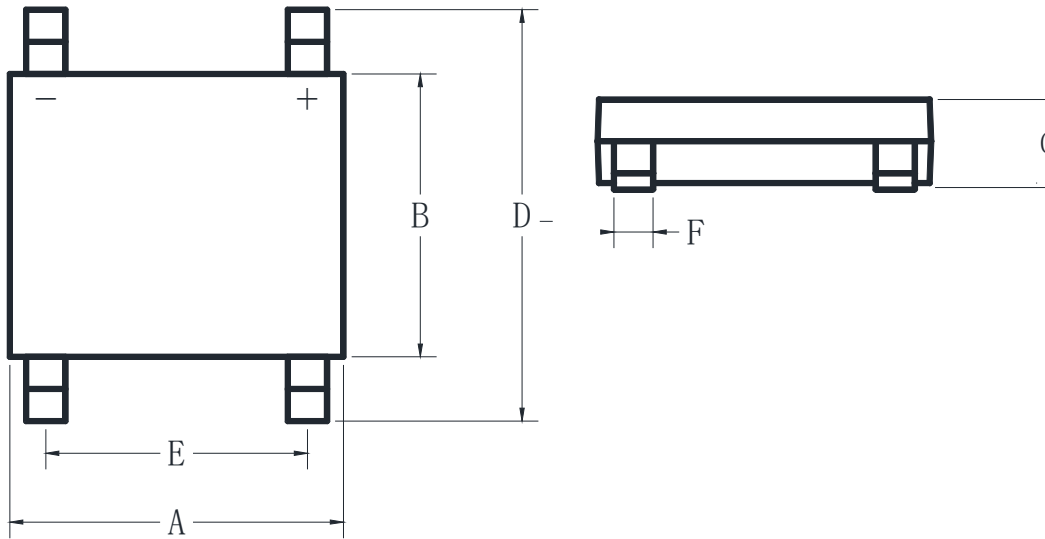


DEVICE TYPE	Tape width	13"Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
MBS	12mm	3000	20	60000



## 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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