

#### Bridge Rectifiers Reverse Voltage600V-1000v Forward current-0.8A

#### **Features**

Glass passivated chip
High surge current capability
Ldeal 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

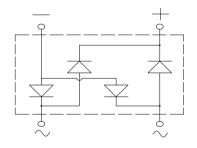
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 





#### Maximum Ratings (Ta=25℃ Unless otherwise specified)

	_				
Type Number	SYMBOL	MB6S	MB8S	MB10S	Umit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	V
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO <sub>(AV)</sub>	0.8		Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	30.0 60.0		Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	II OW				
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t		3.7		A <sup>2</sup> S
Maximum Forward Voltage at 0.8A DC	$V_{FM}$	1.1		V	
Maximum Reverse Current TA = 25℃	IR 5				
at Rated DC Blocking Voltage TA = 100 ℃	i ik	100		- uA	
Typical Junction Capacitance	CJ		17		pF
Typical Thermal Resistance Between junction and	$R_{QJa}$	76.0		°C/W	
Operating Junction Temperature Range	$T_J$		—55to+150	)	${\mathbb C}$
Storage Temperature Range	T <sub>STG</sub>	—55to+150		${\mathbb C}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

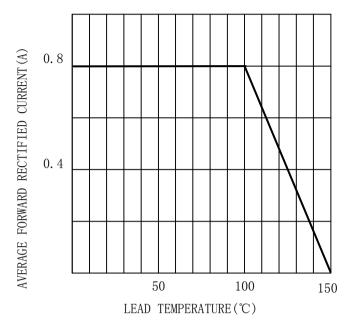


FIG. 2TYPICAL FORWARD CHARACTERISTICS

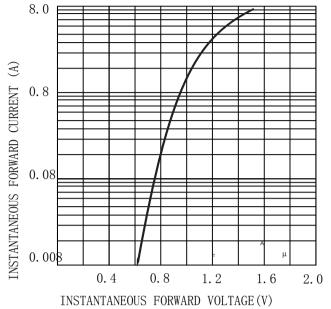


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

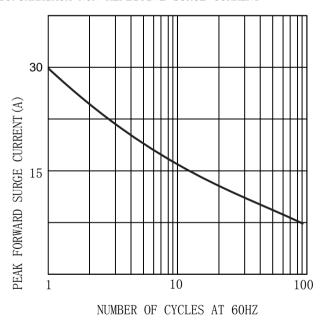
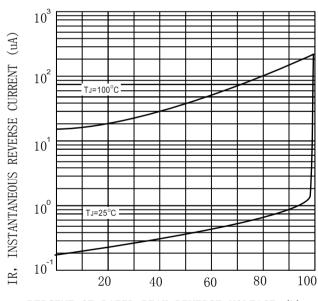


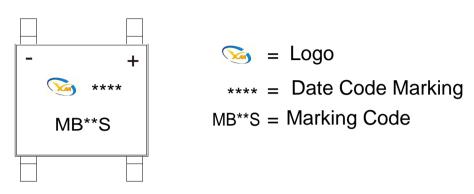
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



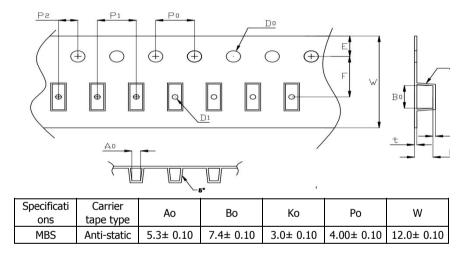
### **MARKING INFORMATION**

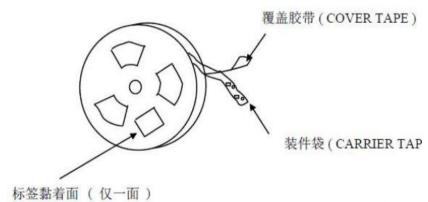


Print according to customer request

### **PACKING REQUIRMENTS**

### Carrier tape packing



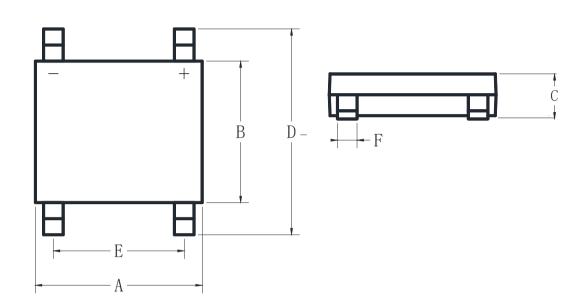


DEVICE	Tape	13"Reel			
	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
MBS	12mm	3000	20	60000	



### Outline Dimensions

**MBS** 



MBS						
DIM	INC HES		MM			
	MIN	MAX	MIN	MAX		
A	0. 18	0.20	4.5	5. 1		
В	0.14	0.16	3.6	4		
С	0.09	0.11	2.3	2. 7		
D	0. 24	0.30	6	7. 5		
Е	0.08	0.12	2	3		
F	0.02	0.04	0.4	1		



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