

### Bridge Rectifiers Reverse Voltage-1000v Forward current-4A

#### **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: MSB

Terminals:Tin Plated leads, solderable per

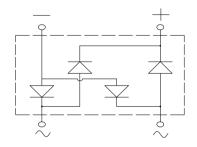
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 





### Maximum Ratings (Ta=25<sup>o</sup>C Unless otherwise

		1	ı	
Type Number	SYMBOL	MSB410	Umit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V	
Maximum RMS Voltage	$V_{RMS}$	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	1000	V	
Maximum Average Forward Rectified Current at TL = 100 ℃	IO <sub>(AV)</sub>	А		
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	120.0	А		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			А	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	59.8	A <sup>2</sup> S	
Maximum Forward Voltage at 4.0A DC	$V_{FM}$	1.1	V	
Maximum Reverse Current TA = 25℃	IR	5	uA	
at Rated DC Blocking Voltage TA = 100 ℃	IK	100		
Reverse Recovery Time	trr	800↑	nS	
Typical Junction Capacitance	CJ	40	pF	
Typical Thormal Posistance	$R_{QJa}$	75.0	°C/W	
Typical Thermal Resistance	$R_{QJC}$	7.0	C/VV	
Operating Junction Temperature Range	T <sub>J</sub>	55to+150	$^{\circ}$ C	
Storage Temperature Range	T <sub>STG</sub>	55to+150	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

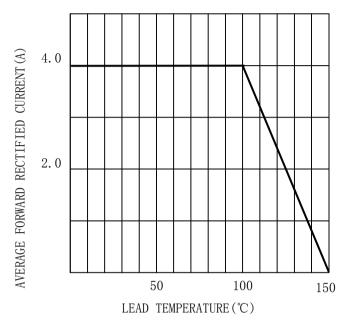


FIG. 2TYPICAL FORWARD CHARACTERISTICS

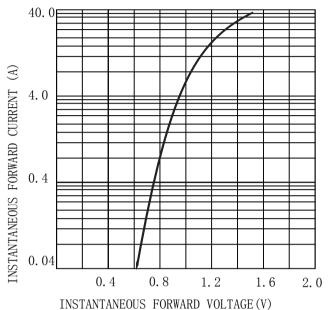


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

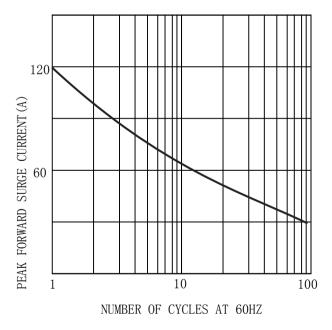
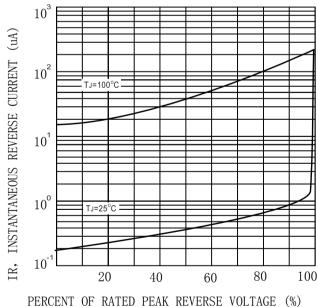


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





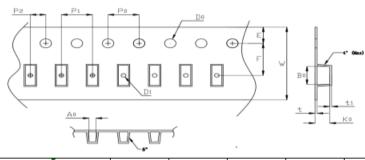
## **MARKING INFORMATION**



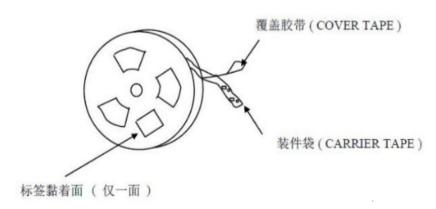
Print according to customer request

# **PACKING REQUIRMENTS**

Carrier tape packing



Specificati ons	Carrier tape type	Ao	Во	Ко	Po	w	t1	Exiplain
MSB	Anti-static	7.0± 0.10	8.7±0.10	1.65± 0.10	4.00± 0.10	16.0± 0.30	0.28± 0.05	

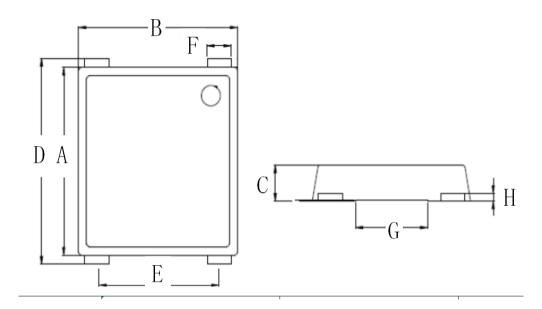


DEVICE	Tape	13"Reel			
TYPE	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
MSB	16mm	3000	6000	60000	



# Outline Dimensions

MSB



MSB					
DIM	INC HES		MM		
	MIN	MAX	MIN	MAX	
A	0.28	0. 29	7.0	7.4	
В	0.26	0. 27	6.5	6.9	
С	0.05	0.06	1.2	1.6	
D	0.32	0.33	8.1	8.5	
Е	0.19	0. 21	4.9	<b>5.</b> 3	
F	0.04	0.05	0.9	1.3	
G	0.11	0. 13	2.8	3. 2	
Н	0.01	0.02	0.2	0.4	



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