



Bridge Rectifiers Reverse Voltage-1000v Forward current-3A

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

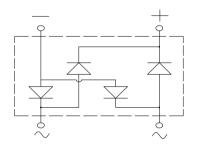
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	MSB310	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 $^{\circ}$ C	IO _(AV)	3.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	80.0	А	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	6	160.0	Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	I ² t	26.6	A ² S	
Maximum Forward Voltage at 3.0A DC	V_{FM}	1.1	V	
Maximum Reverse Current TA = 25° C	IR	5	uA	
at Rated DC Blocking Voltage TA = 100℃	IK	100		
Typical Junction Capacitance	CJ	40	pF	
Typical Thermal Resistance	R_{QJa}	75.0	°C/W	
Operating Junction Temperature Range	T _J	55to+150	$^{\circ}\! \mathbb{C}$	
Storage Temperature Range	T _{STG}	55to+150	$^{\circ}$ C	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

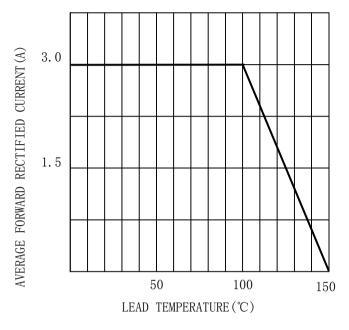


FIG. 2TYPICAL FORWARD CHARACTERISTICS

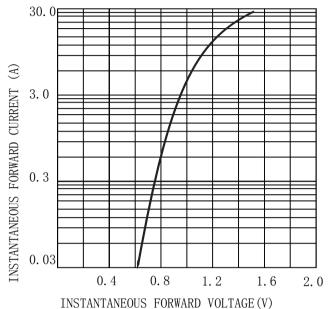


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

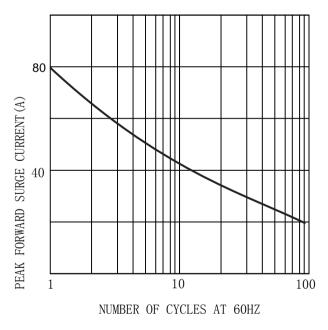
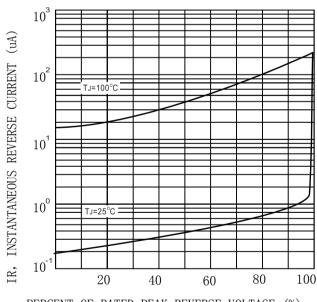
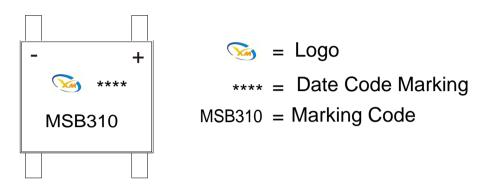


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

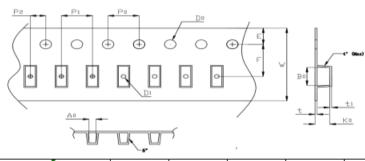
MARKING INFORMATION



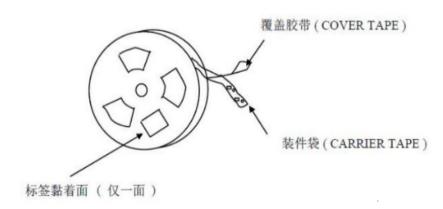
Print according to customer request

PACKING REQUIRMENTS

Carrier tape packing



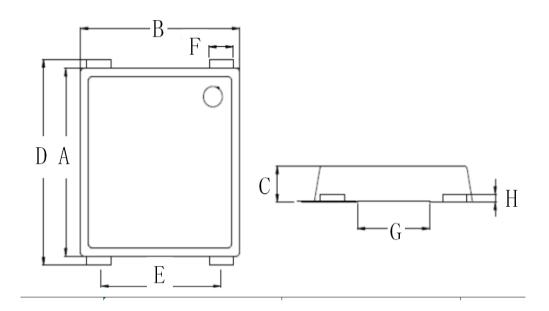
Specificati ons	Carrier tape type	Ao	Во	Ко	Po	w	t1	Exiplain
MSB	Anti-static	7.0± 0.10	8.7±0.10	1.65 ± 0.10	4.00 ± 0.10	16.0± 0.30	0.28± 0.05	



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	0.35	8.2	8.8	
Е	0.19	0.21	4.9	5. 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	

Important Statements and disclaimers.

Do not copy or modify file information without permission.

Xumao Micro reserves the right to modify this document and its products.

Specifications are available without prior notice. Customer shall obtain and confirm the latest product information and specifications prior to final design, purchase or use.

Xumao Micro does not assume any implied warranties, including warranties of fitness for special purposes, non-infringement and merchantability.

The products shown here are not designed and licensed for demanding equipment at a level of reliability or for human life and any life-saving related applications or life-sustaining, such as medical devices, transportation equipment, aerospace machinery, and so on. Customers who use or sell these products for such applications do so at their own risk.

As Xumao Micro uses batch number as tracking benchmark, please provide batch number for tracking in case of exception.