

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

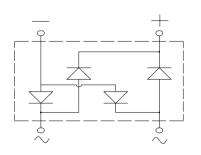
Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	MSB307	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	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℃	5	160.0	Α
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	26.6	A ² S
Maximum Forward Voltage at 3.0A DC	V_{FM}	1.1	V
Maximum Reverse Current TA = 25℃	ID	5	
at Rated DC Blocking Voltage TA = 125℃	- IR	100	uA
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



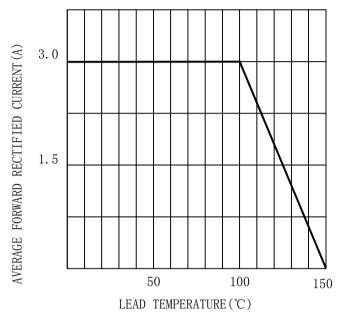


FIG. 2TYPICAL FORWARD CHARACTERISTICS

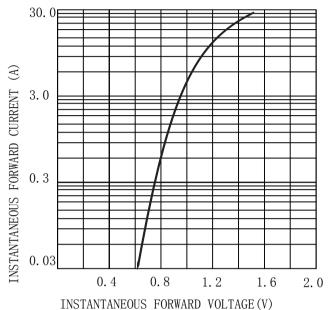


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

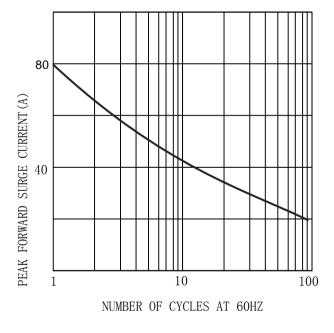
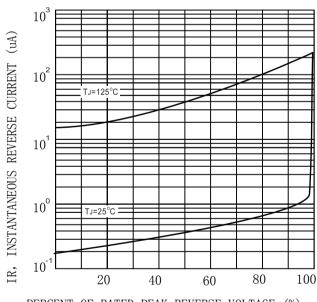


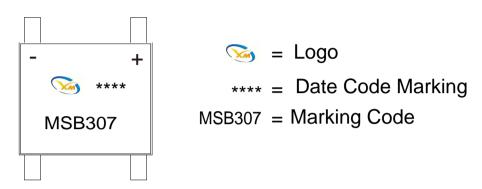
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



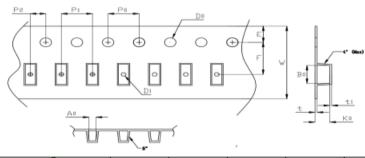
MARKING INFORMATION



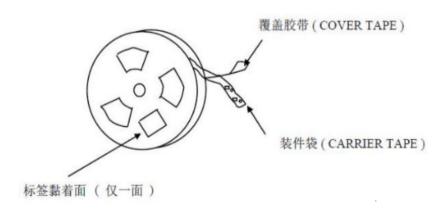
Print according to customer request

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	

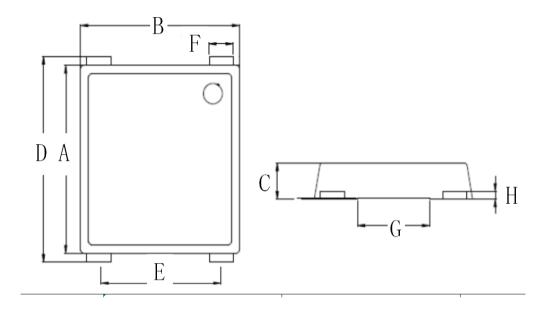


DEVICE Tape		13"Reel			
TYPE	width	Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)	
MSB	16mm	3000	6000	60000	



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	

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