

Bridge Rectifiers

Features

- High efficiency
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

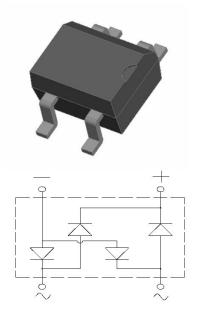
• Package:MBS

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

• Polarity: As marked on body.



■ Maximum Ratings (Ta=25°C Unless otherwise specified)

	Symbol	Unit	MB						
PARAMETER			005S	18	2S	4S	68	88	108
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load ,Tc(Fig.1)	lo	А	0.8						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25℃	Ігѕм	Α	30						
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l ² t	A ² s	3.7						
Thermal Resistance(Typical) @Between junction and ambient	R _{0J-A}	°C/W	134						
Storage Temperature	Tstg	$^{\circ}\!\mathbb{C}$	-55 ~ +150						
Junction Temperature	Tj	$^{\circ}\!\mathbb{C}$	-55 ~ +150			·			

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

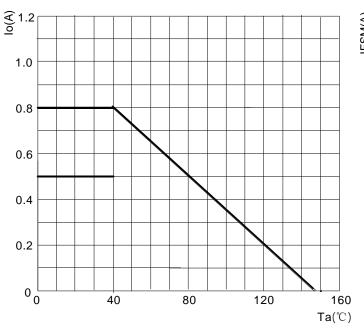
PARAMETER	Symbol U	Unit	Conditions	MB							
PARAMETER Symbol 0		Ullit	Conditions	005S	1S	28	48	68	88	108	
Peak Forward Voltage	VFM	٧	I F =0.4A	1.05							
Dook Doverno Cumont	I _{RRM} µ/		VR =V _{DC} @Ta=25℃	5							
Peak Reverse Current		μΑ	VR =V _{DC} @Ta=100℃ 200								



■ Characteristics (Typical)

FIG.1: Io-Ta Curve

FIG.2: Forward Surge Current Capability



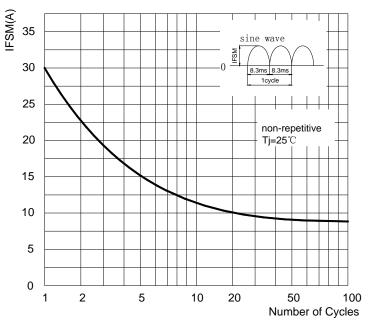
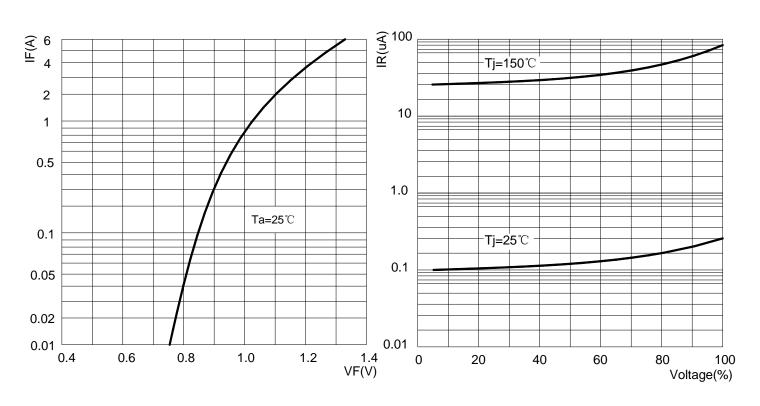


FIG.3: Forward Voltage

FIG.4: Typical Reverse Characteristics

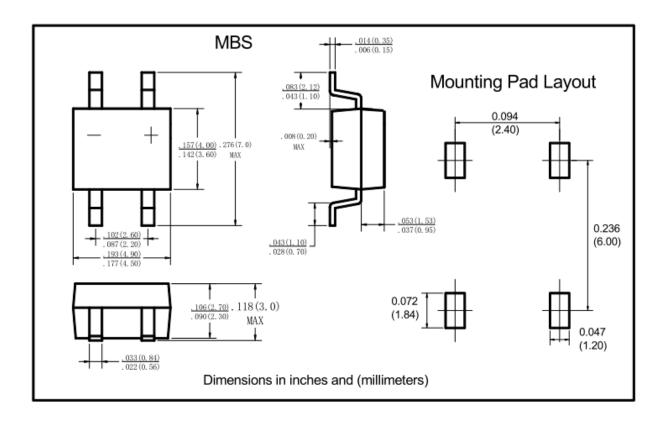




■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
MB005S THRU MB10S	MBS	3000	6000	48000	13"reel	

■ Outline Dimensions





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