

MB005S THRU MB10S

Bridge Rectifiers

Features

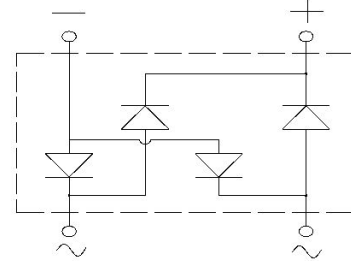
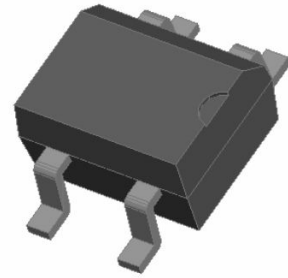
- High efficiency
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

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)

PARAMETER	Symbol	Unit	MB						
			005S	1S	2S	4S	6S	8S	10S
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load, T _c (Fig.1)	I _o	A	0.8						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	30						
Current squared time @1ms≤t≤8.3ms Ta=25°C, Rating of per diode	I ² t	A ² s	3.7						
Thermal Resistance(Typical) @Between junction and ambient	R _{θJ-A}	°C/W	134						
Storage Temperature	T _{stg}	°C	-55 ~ +150						
Junction Temperature	T _j	°C	-55 ~ +150						

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

PARAMETER	Symbol	Unit	Conditions	MB					
				005S	1S	2S	4S	6S	8S
Peak Forward Voltage	V _{FM}	V	I _F = 0.4A	1.05					
Peak Reverse Current	I _{RRM}	μA	VR = V _{DC} @Ta=25°C	5					
			VR = V _{DC} @Ta=100°C	200					



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■ Characteristics (Typical)

FIG.1: I_o - T_a Curve

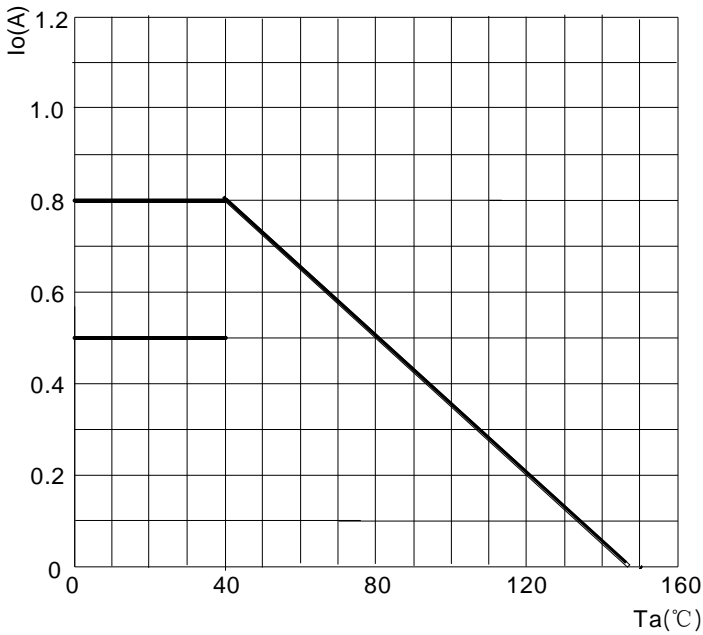


FIG.2: Forward Surge Current Capability

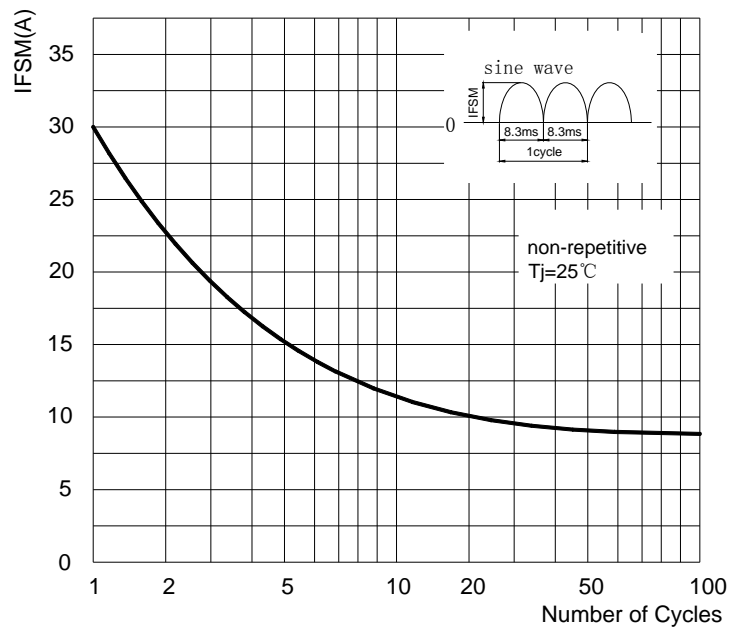


FIG.3: Forward Voltage

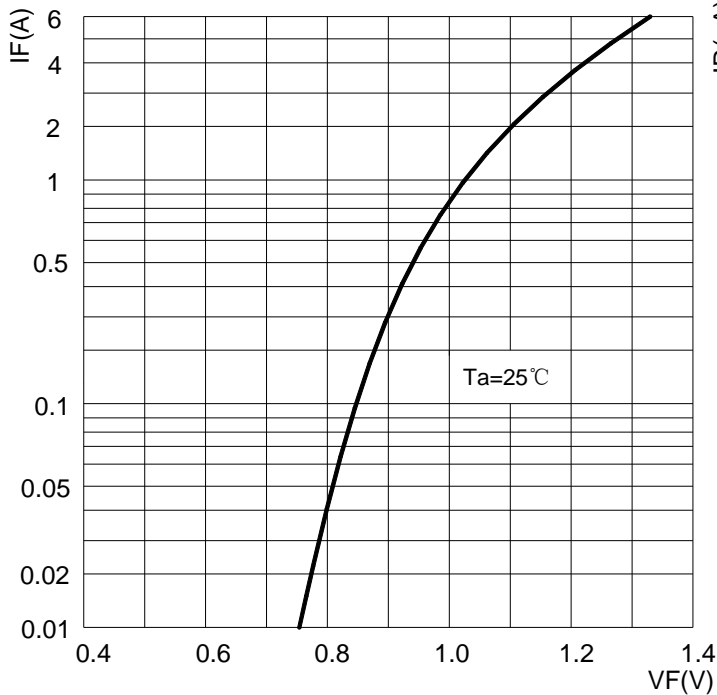
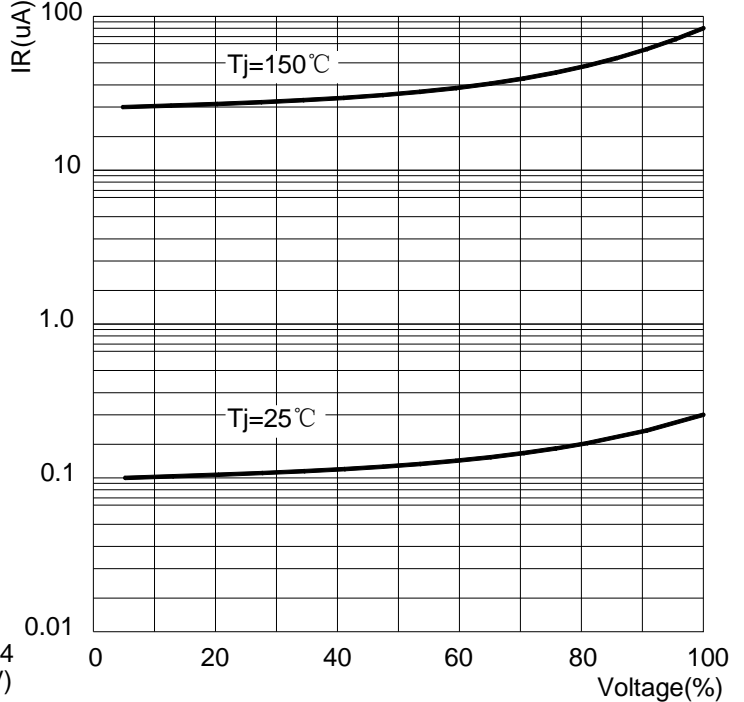


FIG.4: Typical Reverse Characteristics



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■ 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

