



# MB4F-08~MB10F-08

## SINGE PHASE 0.8AMP GLASS PASSIVATED BRIDGE RECTIFIERS

**VOLTAGE** 400~1000 Volt **CURRENT** 0.8 Amper



Recognized File #E111753

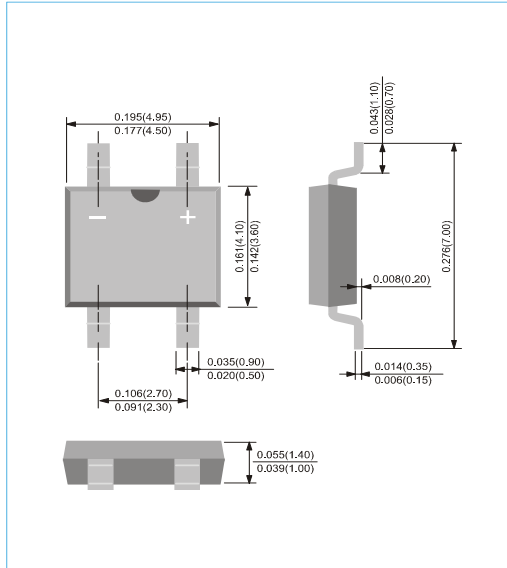
### FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- High surge current capability
- Small size simple intallation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case : MBF, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As Marked on case
- Approx weight : 0.00289 ounces, 0.0818 grams

**MBF** Unit : inch(mm)



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

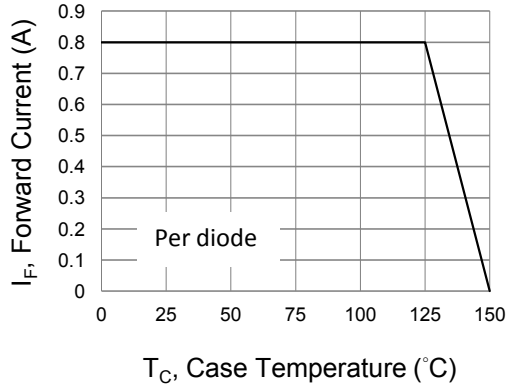
PARAMETER	SYMBOL	MB4F-08	MB6F-08	MB8F-08	MB10F-08	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	400	600	800	1000	V
Maximum Average Rectified Forward Current per diode	$I_{F(AV)}$	0.8				A
Peak Forward Surge Current : 8.3ms single half-sine-wave superimposed on rated load per diode	$I_{FSM}$	30				A
$I^2t$ Rating for fusing ( $t < 8.3ms$ )	$I^2t$	3.735				A <sup>2</sup> S
Maximum Forward Voltage at 0.8A	$V_F$	1				V
Maximum DC Reverse Current at $T_J = 25^\circ C$	$I_R$	5				$\mu A$
Typical Junction Capacitance ( $V_R = 4V, f = 1MHz$ )	$C_J$	15				pF
Typical Thermal Resistance per diode	(Note 1) $R_{\theta JC}$ (Note 2) $R_{\theta JA}$	25 138				$^\circ C/W$
Operating Junction Temperature Range	$T_J$	-55 to +150				$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150				$^\circ C$

Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area

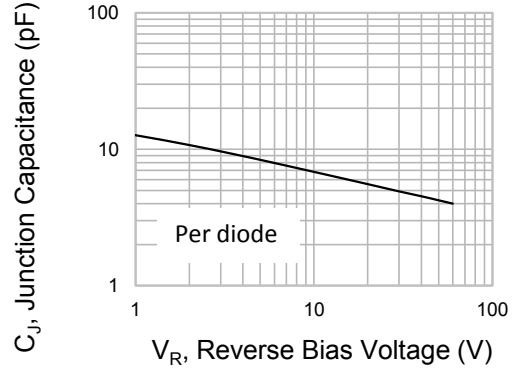
2.Mounted on a FR4 PCB, single-sided copper, mini pad.



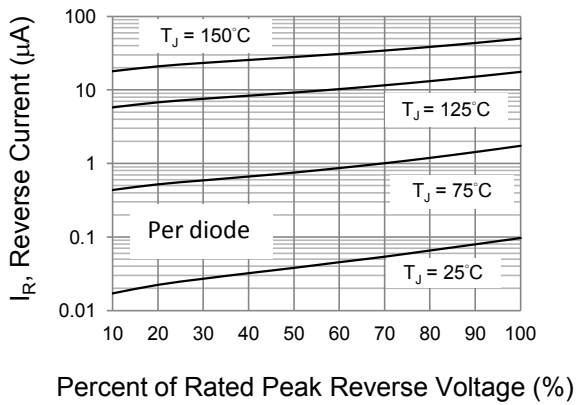
# MB4F-08~MB10F-08



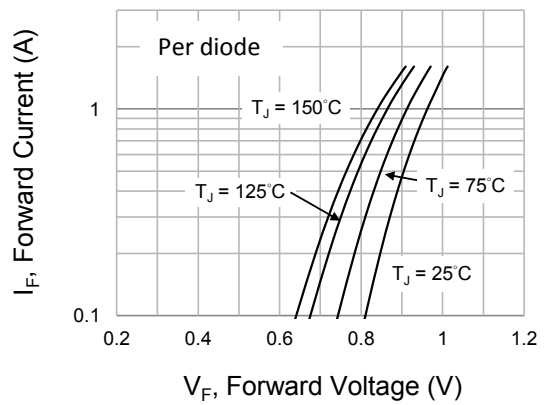
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

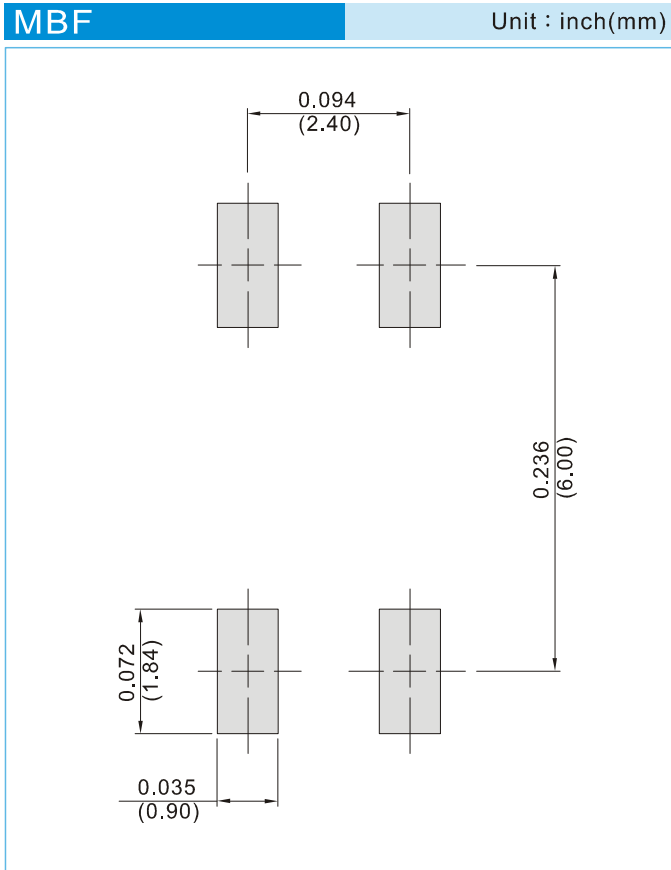


**Fig.4 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 5K per 13" plastic Reel



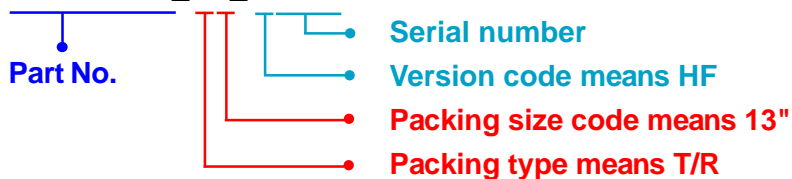
# MB4F-08~MB10F-08

## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
MB4F-08_R2_00001	MBF	5K pcs / 13" reel	MB4F	Halogen free
MB6F-08_R2_00001	MBF	5K pcs / 13" reel	MB6F	Halogen free
MB8F-08_R2_00001	MBF	5K pcs / 13" reel	MB8F	Halogen free
MB10F-08_R2_00001	MBF	5K pcs / 13" reel	MB10F	Halogen free

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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