



# MR6F-08

## FAST RECOVERY BRIDGE RECTIFIER

**Voltage**

**600 V**

**Current**

**0.8 A**

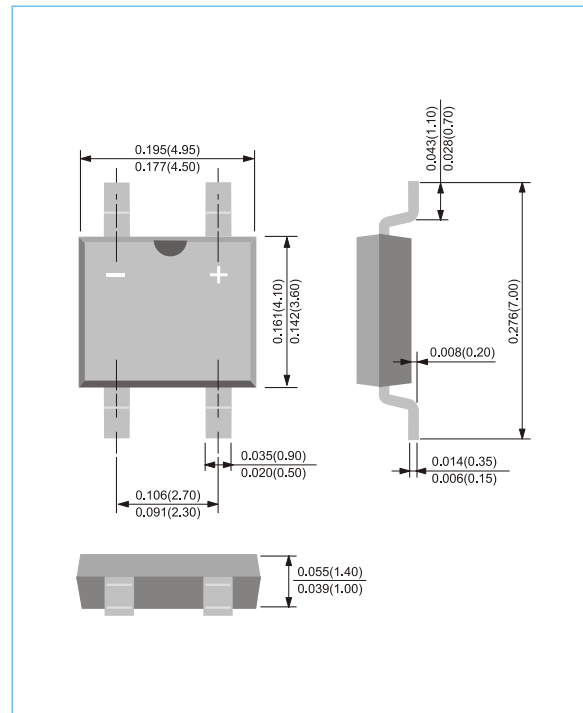
### Features

- Ultra Thin Profile Package for Space Constrained Utilization
- Ideally Suited for Automatic Assembly
- Save Space On Printed Circuit Boards
- 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 ( $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	V
Maximum rms voltage	$V_{RMS}$	420	V
Maximum dc blocking voltage	$V_R$	600	V
Maximum average forward rectified current	$I_{F(AV)}$	0.8	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30	A
Maximum forward voltage at 0.8A	$V_F$	1.15	V
Maximum dc reverse current at rated dc blocking voltage	$I_R$	5	$\mu\text{A}$
Maximum reverse recovery time (Note 1)	$T_{RR}$	250	nS
Typical thermal resistance	(Note 2) $R_{\theta JA}$	200	$^\circ\text{C/W}$
	(Note 3) $R_{\theta JC}$	36	$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

NOTES:1.Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=-1\text{A}$ ,  $I_{rr}=-0.25\text{A}$

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

3.Mounted on a FR4 PCB, single-sided copper, with  $100\text{cm}^2$  copper pad area



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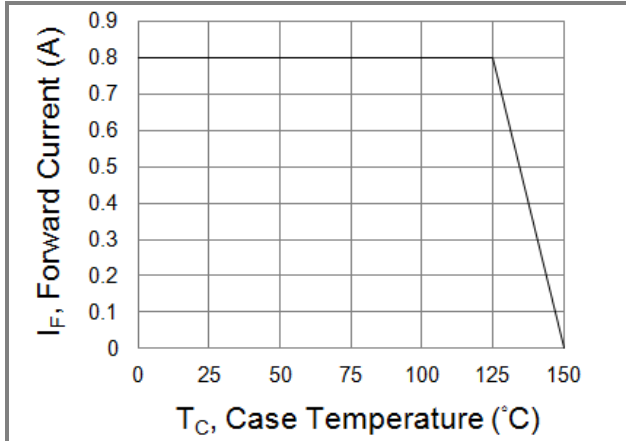


Fig.1 Forward Current Derating Curve

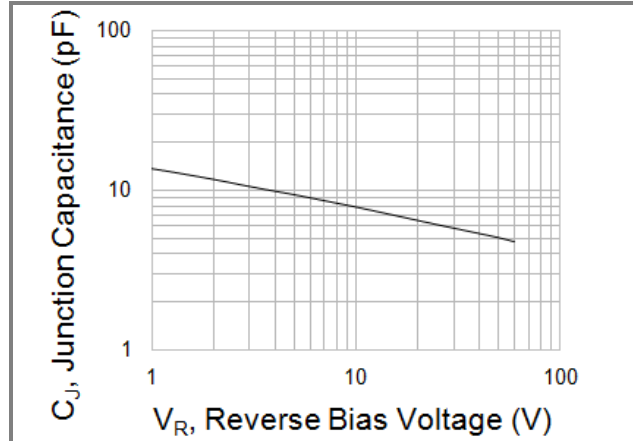


Fig.2 Typical Junction Capacitance

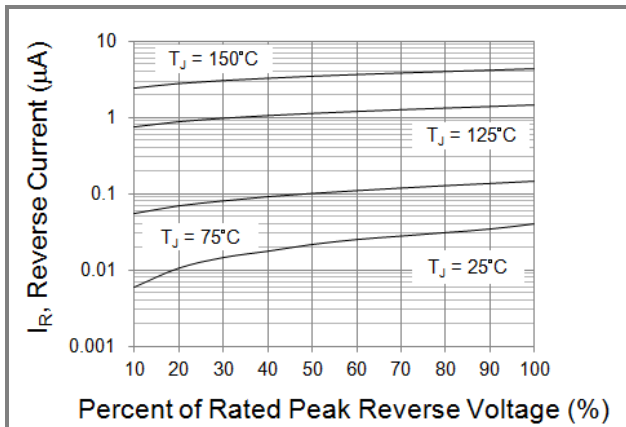


Fig.3 Typical Reverse Characteristics

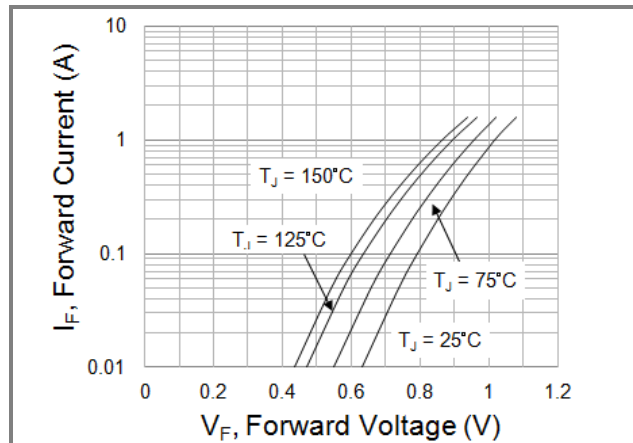


Fig.4 Typical Forward Characteristics

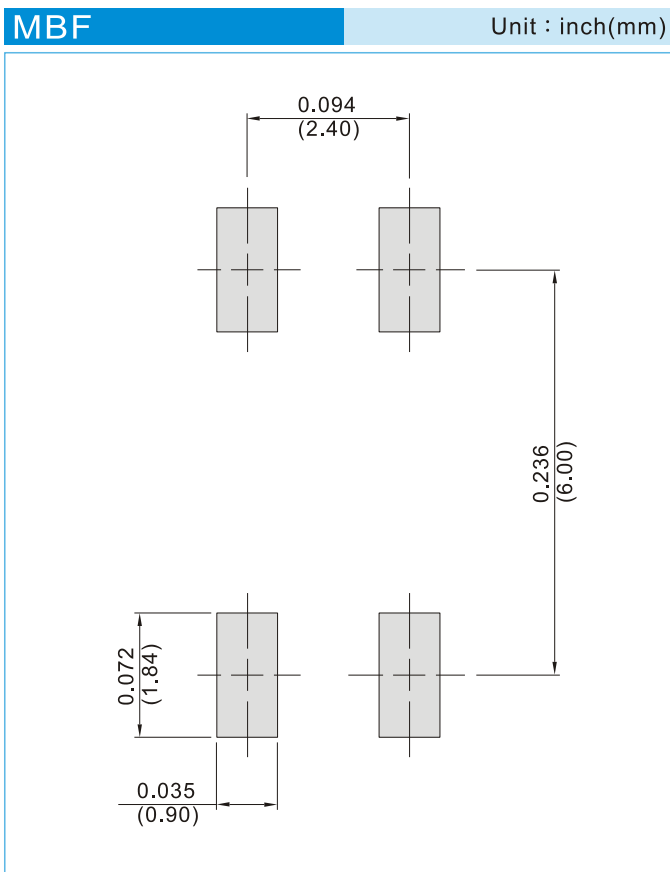


# MR6F-08

## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
MR6F-08_R2_00001	MBF	5K pcs / 13" reel	MR6F08	Halogen free

## MOUNTING PAD LAYOUT





## MR6F-08

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