

# MR6F-08

## FAST RECOVERY BRIDGE RECTIFIER

**Voltage**

**600 V**

**Current**

**0.8 A**

### Features

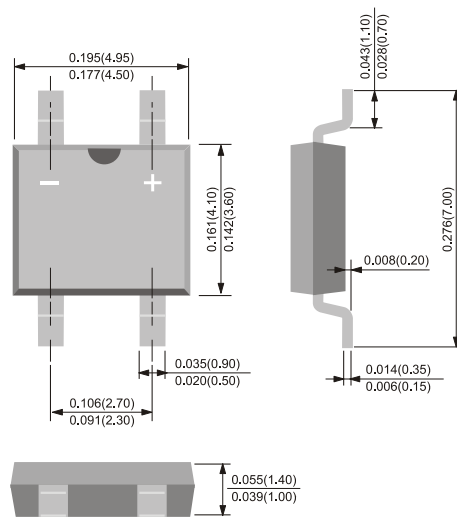
- Ultra Thin Profile Package for Space Constrained Utilization
- Ideally Suited for Automatic Assembly
- Save Space On Printed Circuit Boards
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std.. (Halogen Free)

### 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	$R_{\theta JA}$	200	$^\circ\text{C/W}$
	$R_{\theta JC}$	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 100cm<sup>2</sup> copper pad area

## MR6F-08

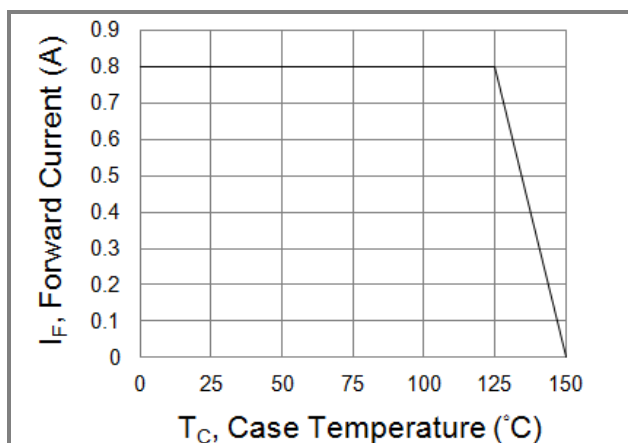


Fig.1 Forward Current Derating Curve

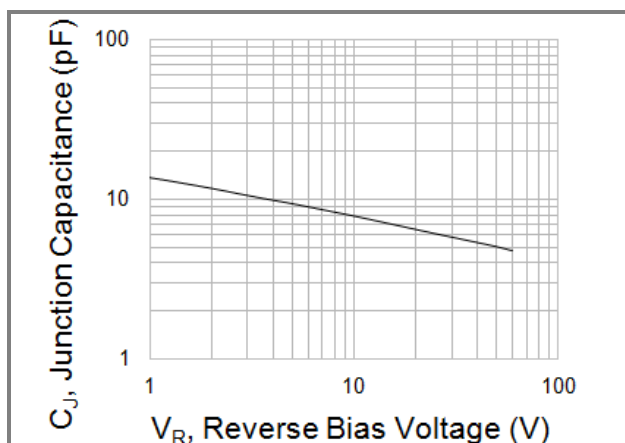


Fig.2 Typical Junction Capacitance

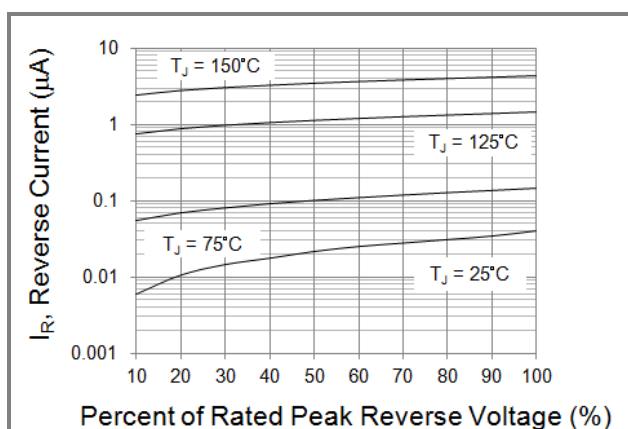


Fig.3 Typical Reverse Characteristics

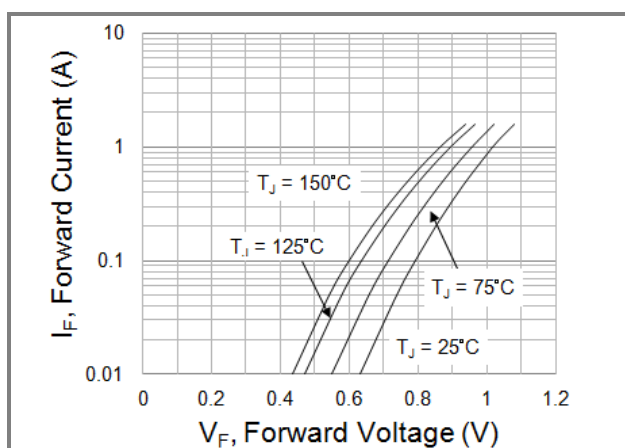


Fig.4 Typical Forward Characteristics

## MR6F-08

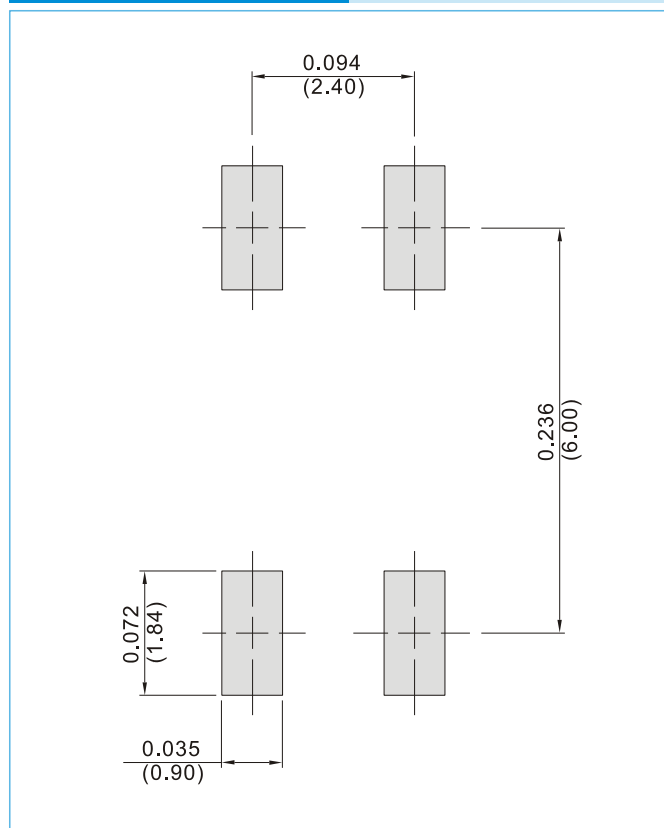
### PART NO PACKING CODE VERSION

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

**MBF**

Unit : inch(mm)





## MR6F-08

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

[MR6F-08\\_R2\\_00001](#)