



MBR840FCT~MBR8200FCT

SCHOTTKY BARRIER RECTIFIER

CURRENT 8 Ampere

FEATURES

VOLTAGE

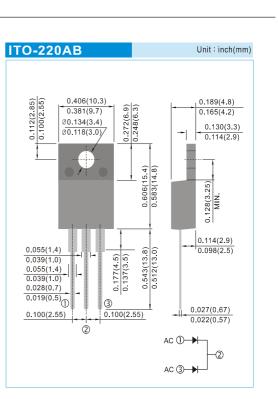
 Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.

40 to 200 Volt

- Low power loss, high efficiency.
- Low forward voltge, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: ITO-220AB molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Weight: 0.056 ounces, 1.6 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

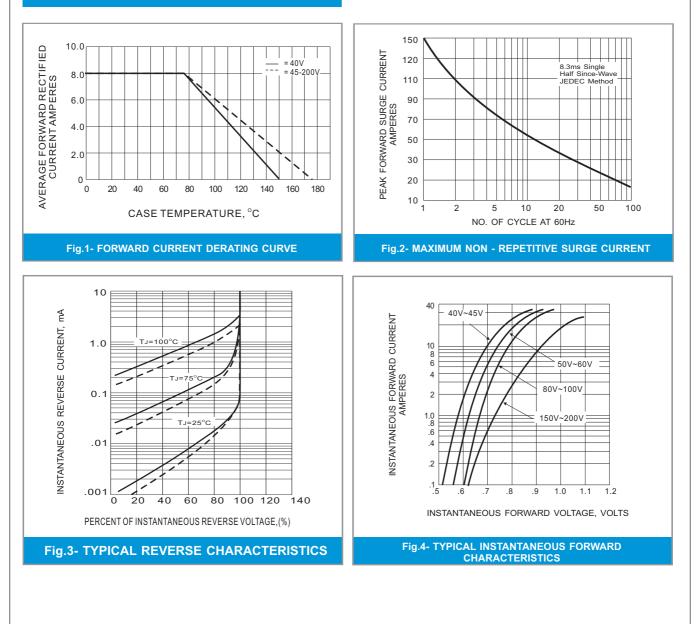
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MBR840FCT	MBR845FCT	MBR850FCT	MBR860FCT	MBR880FCT	MBR890FCT	MBR8100FCT	MBR8150FCT	MBR8200FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	v
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward (See Figure 1)	I _{F(AV)}	8					А				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	150				A					
Maximum Forward Voltage at 4A	V _F	0	.7	7 0.75 0.8 0.9		.9	v				
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$	I _R	0.05 20				mA					
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	3			°C / W						
Operating Junction and Storage Temperature Range	T_,T _{stg}	-55 to +150 -65 to +175			°C						

NOTES : Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES



- 60





MBR840FCT~MBR8200FCT

Part No_packing code_Version

MBR840FCT_T0_00001

For example :

RB500V-40_R2_00001

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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)	В	13"	2						
Tube Packing (T/P)	т	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						





MBR840FCT~MBR8200FCT

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.