



SCHOTTKY BARRIER RECTIFIERS

Voltage

45 / 60 V

Current

15 A

Features

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

- 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)

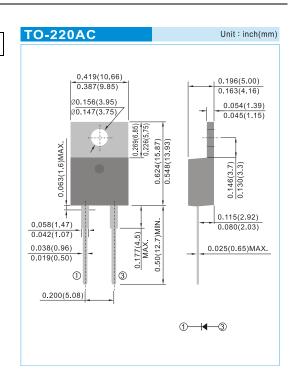
Mechanical Data

• Case: Molded plastic, TO-220AC

• Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.067 ounces, 1.89 grams

Marking: Part number



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBR1545	MBR1560	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	45 60		V
Maximum rms voltage	VRMS	31	42	V	
Maximum dc blocking voltage	VR	45	60	V	
Maximum average forward rectified current		I F(AV)	15		Α
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	28	А	
Maximum forward voltage at 15A		VF	0.64	0.75	V
Maximum dc reverse current at rated dc blocking voltage		lr	50		μΑ
Typical thermal resistance	(Note 1)	$R_{ heta JC}$	2	°C/W	
Operating junction temperature range		TJ	-55 to +150		°C
Storage temperature range		Тѕтс	-55 to	ο̂	

Note: 1. Device mounted on a infinite heatsink.

October 3,2016-REV.01 Page 1





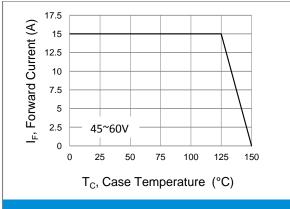


Fig.1 Forward Current Derating Curve

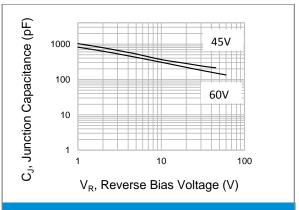


Fig.2 Typical Junction Capacitance

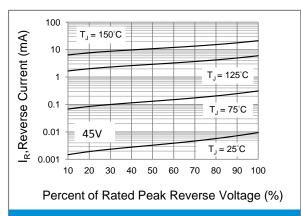


Fig.3 Typical Reverse Characteristics

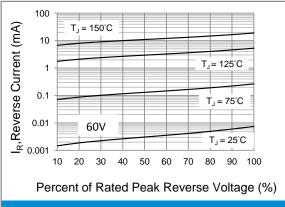


Fig.3 Typical Reverse Characteristics

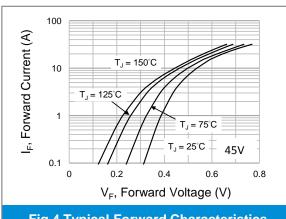


Fig.4 Typical Forward Characteristics

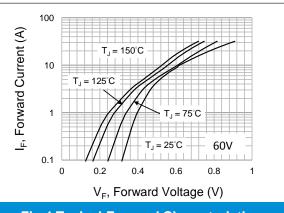


Fig.4 Typical Forward Characteristics

October 3,2016-REV.01 Page 2

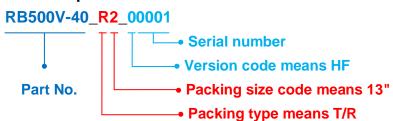




Part No_packing code_Version

MBR1545_T0_00001

For example:



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)	Α	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			

October 3,2016-REV.01 Page 3





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.

October 3,2016-REV.01 Page 4