



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)

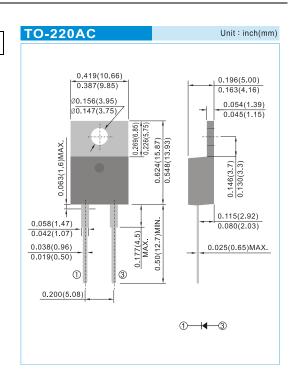
Mechanical Data

• 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	280		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.





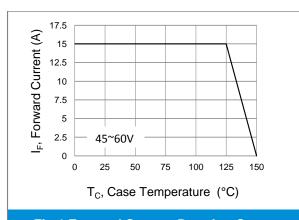


Fig.1 Forward Current Derating Curve

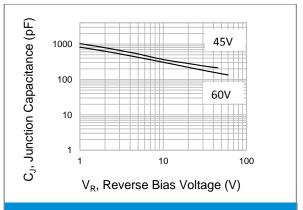


Fig.2 Typical Junction Capacitance

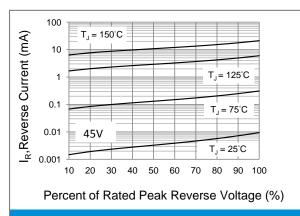


Fig.3 Typical Reverse Characteristics

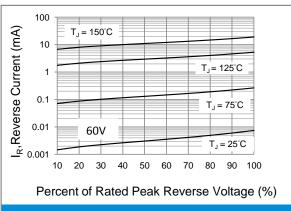
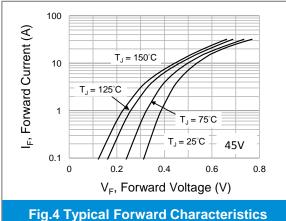


Fig.3 Typical Reverse Characteristics



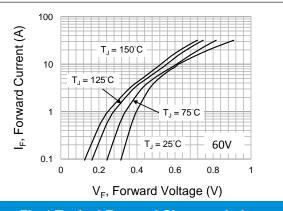


Fig.4 Typical Forward Characteristics

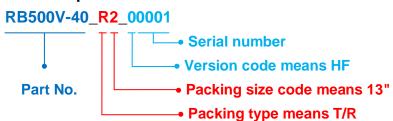




Part No_packing code_Version

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)	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			





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