



ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

Voltage

150 V

Current

30 A

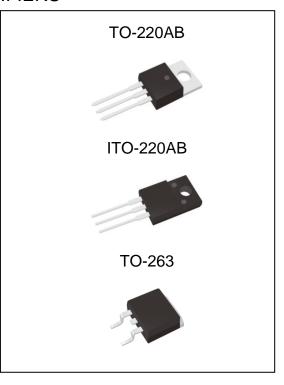
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- High junction temperature capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: TO-220AB, ITO-220AB, TO-263 package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- TO-220AB Weight: 0.067 ounces, 1.89 grams.
- ITO-220AB Weight: 0.056 ounces, 1.6 grams.
- TO-263 Weight: 0.049 ounces, 1.38 grams.
- Marking: Part number

	150V			
TO-220AB	MBR30H150CT			
TO-263	MBR30H150DC			
ITO-220AB	MBR30H150FCT			



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

PARAMETER		SYMBOL	150V	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	150	V	
Maximum rms voltage		VRMS	105	V	
Maximum dc blocking voltage		VR	150	V	
Maximum average forward rectified	per device		30	А	
current	per diode	I F(AV)	15		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load per diode		İFSM	275	А	
Maximum forward voltage at 15A per diode		VF	0.85	V	
Maximum dc reverse current	T _J =25 °C		0.8	μΑ	
at rated dc blocking voltage	T _J =125 °C	l _R	1	mA	
Typical thermal resistance	TO-220AB(Note 1)		3		
	TO-263(Note 1)	Rojc	3	°C/W	
	ITO-220AB(Note 1)		7		
Operating junction temperature range		Тл	-55 to +175	°C	
Storage temperature range		Тѕтс	-55 to +175	°C	

Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.





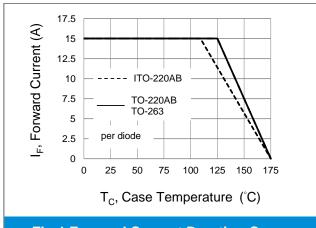


Fig.1 Forward Current Derating Curve

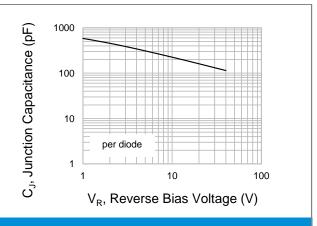


Fig.2 Typical Junction Capacitance

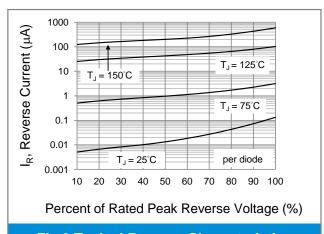


Fig.3 Typical Reverse Characteristics

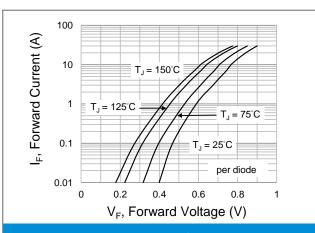
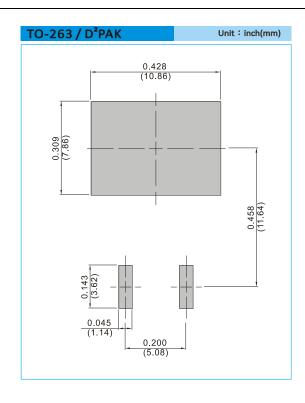


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT

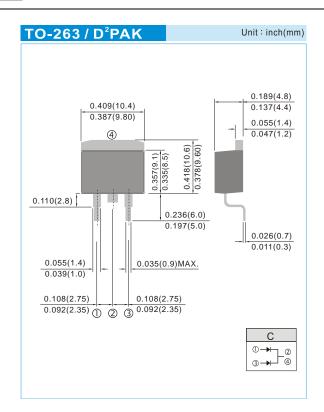


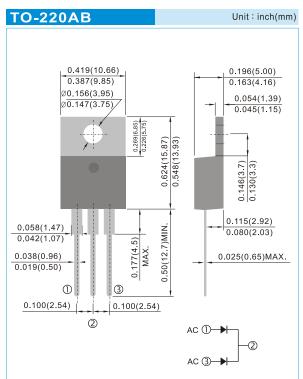
ORDER INFORMATION

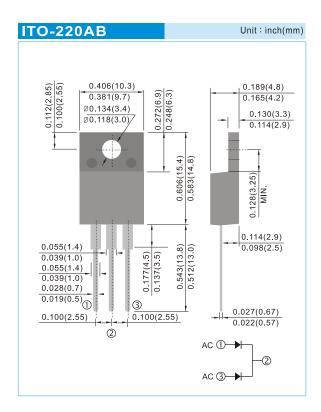
Packing information
 T/R – 0.8K per 13" plastic Reel











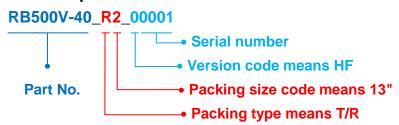




Part No_packing code_Version

MBR30H150CT_T0_00001 MBR30H150DC_R2_00001 MBR30H150FCT_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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