



### ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

Voltage

150 V

Current

20 A

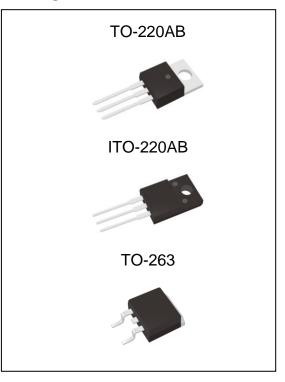
#### **Features**

- 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	MBR20H150CT
ITO-220AB	MBR20H150FCT
TO-263	MBR20H150DC



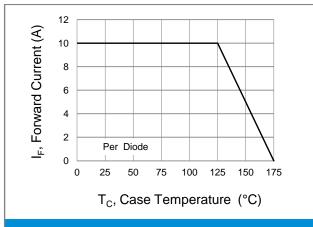
## Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

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		20	А
current	per diode	lF(AV)	10	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load per diode		İFSM	200	А
Maximum forward voltage at 10A per diode		VF	0.85	V
Maximum dc reverse current	T <sub>J</sub> =25°C		0.55	μА
at rated dc blocking voltage	T <sub>J</sub> =125°C	l <sub>R</sub>	1	mA
Typical thermal resistance	TO-220AB(Note 1)	R <sub>eJC</sub>	3	
	TO-263(Note 1)		3	°C/W
	ITO-220AB(Note 1)		7	
Operating junction temperature range		TJ	-55 to +175	°C
Storage temperature range		Тѕтс	-55 to +175	°C

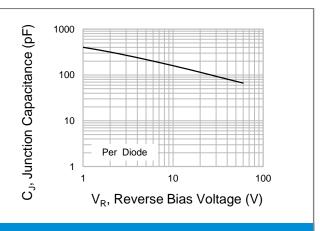
Note: 1. Semi-infinite heatsink







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

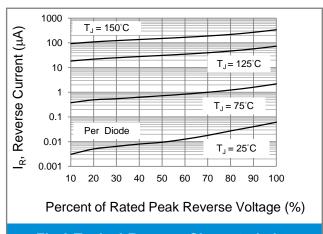


Fig.3 Typical Reverse Characteristics

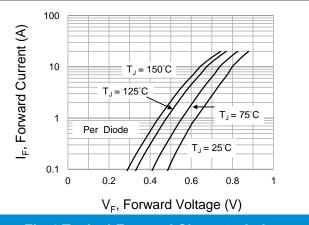
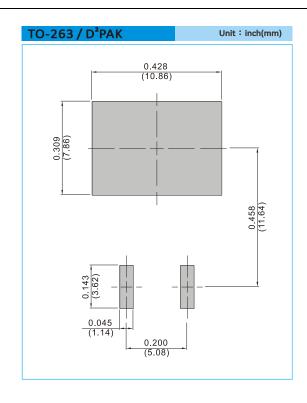


Fig.4 Typical Forward Characteristics





#### **MOUNTING PAD LAYOUT**

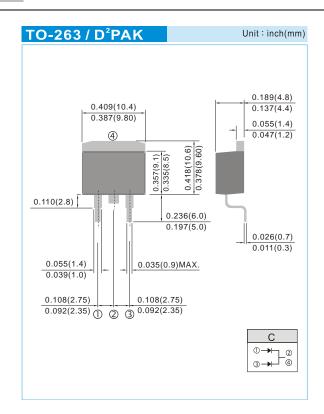


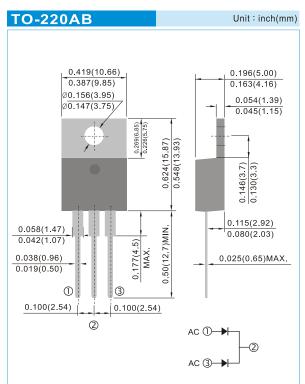
#### ORDER INFORMATION

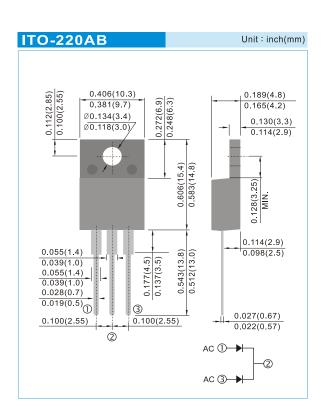
Packing information
 T/R – 0.8K per 13" plastic Reel











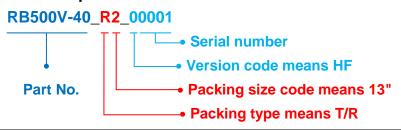




### Part No\_packing code\_Version

MBR20H150CT\_T0\_00001 MBR20H150DC\_R2\_00001 MBR20H150FCT\_T0\_00001

### For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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			





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