



MBR20H200 SERIES

ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

Voltage

200~250 V

Current

20 A

Features

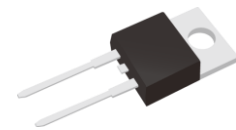
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- High junction temperature capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Case: TO-220AC package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- TO-220AC Weight: 0.067 ounces, 1.89 grams.
- Marking: Part number

	200V	250V
TO-220AC	MBR20H200	MBR20H250

TO-220AC



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

PARAMETER	SYMBOL	200V	250V	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	200	250	V
Maximum rms voltage	V _{RMS}	140	175	V
Maximum dc blocking voltage	V _R	200	250	V
Maximum average forward rectified current	I _{F(AV)}	20		A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275		A
Maximum forward voltage at 20A	V _F	0.95		V
Maximum dc reverse current at rated dc blocking voltage	I _R	T _J = 25°C	0.6	μA
		T _J = 125°C	2	mA
Typical thermal resistance	R _{θJC}	3		°C/W
Operating junction temperature range	T _J	-55 to +175		°C
Storage temperature range	T _{STG}	-55 to +175		°C

Note : 1. Semi-infinite heatsink



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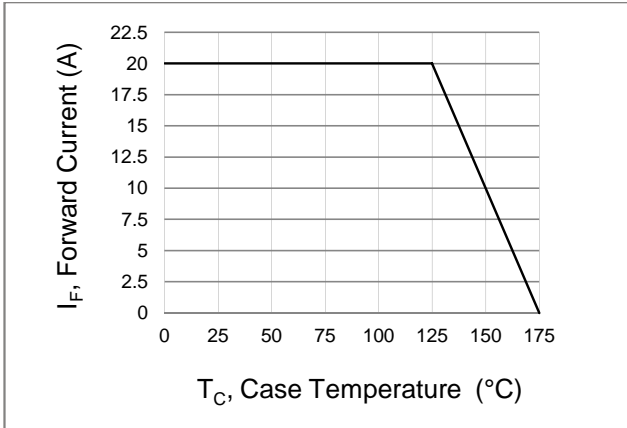


Fig.1 Forward Current Derating Curve

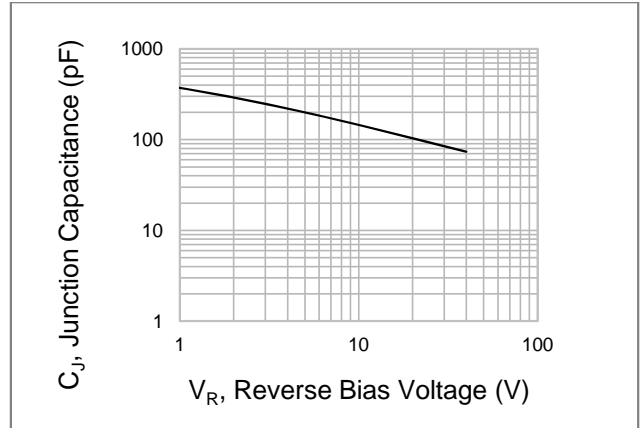


Fig.2 Typical Junction Capacitance

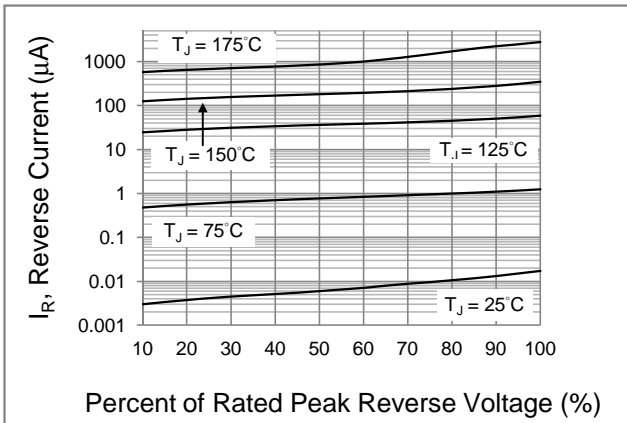


Fig.3 Typical Reverse Characteristics

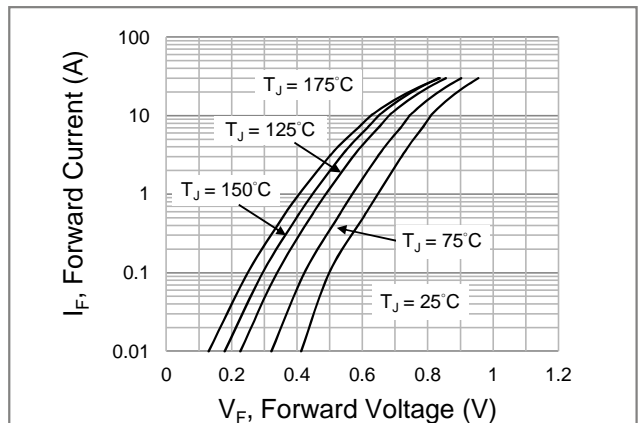
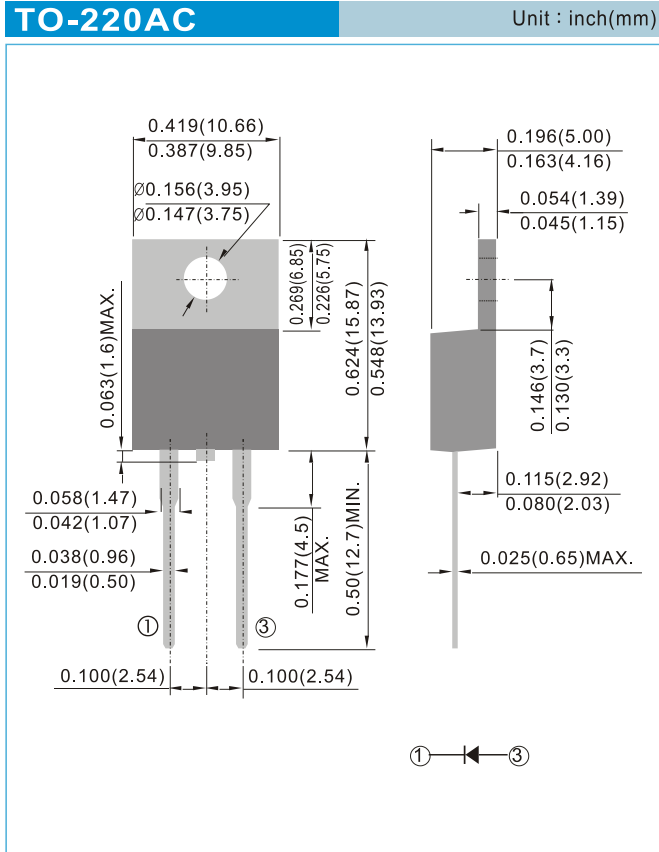


Fig.4 Typical Forward Characteristics



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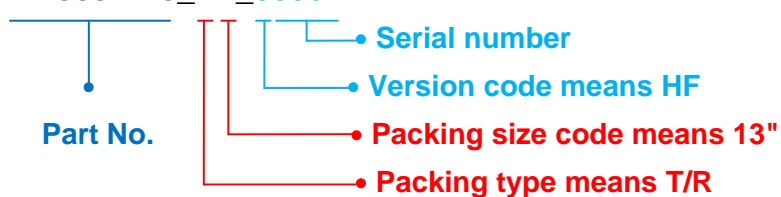
Part No_packing code_Version

MBR20H200_T0_00001

MBR20H200_T0_10001

For example :

RB500V-40_R2_00001



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)	B	13"	2			
Tube Packing (T/P)	T	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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