



MBR20H150FAT

ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS

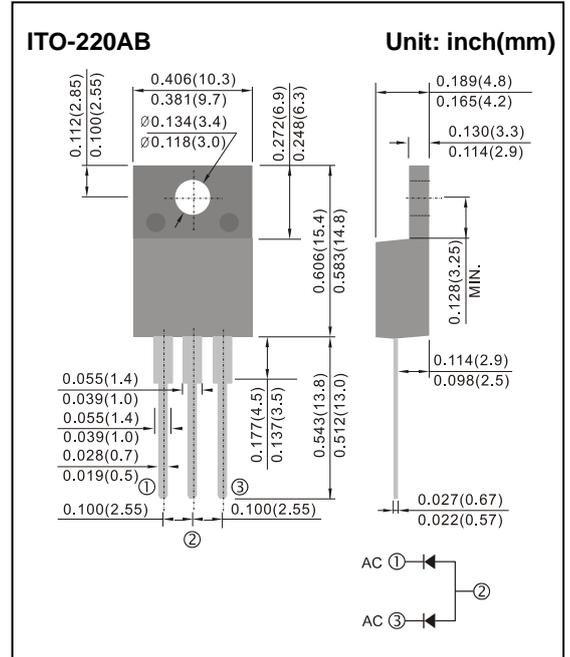
Voltage	150 V	Current	20 A
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Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. 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
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

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



Maximum Ratings And Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	150	V
Maximum rms voltage		V_{RMS}	105	V
Maximum dc blocking voltage		V_R	150	V
Maximum average forward rectified current	per device	$I_{F(AV)}$	20	A
	per diode		10	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load per diode		I_{FSM}	200	A
Maximum forward voltage at 10A per diode		V_F	0.85	V
Maximum dc reverse current at rated dc blocking voltage (Note 2)	$T_J = 25^\circ\text{C}$	I_R	0.55	μA
	$T_J = 125^\circ\text{C}$		1	mA
Typical thermal resistance (Note 1)		$R_{\theta JC}$	7.7	$^\circ\text{C/W}$
Operating junction temperature range		T_J	-55 to +175	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55 to +175	$^\circ\text{C}$

Note : 1. Semi-infinite heatsink.

2. Short duration pulse test used to minimize self-heating effect.



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TYPICAL CHARACTERISTIC CURVES

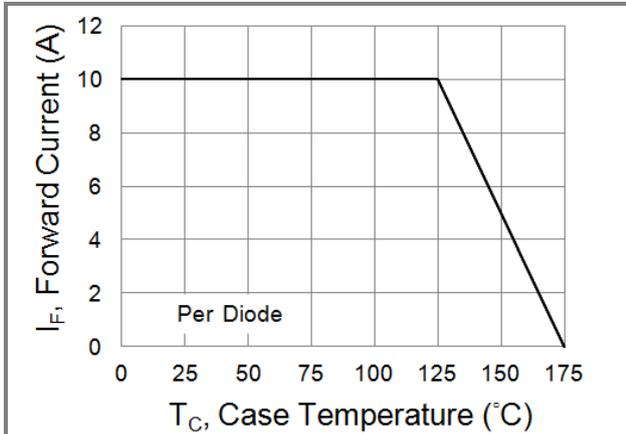


Fig.1 Forward Current Derating Curve

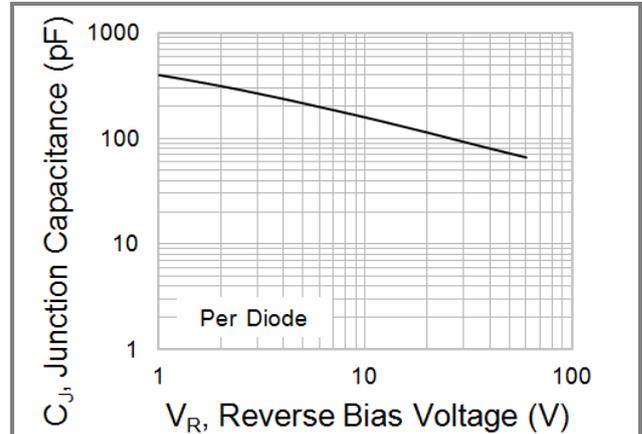


Fig.2 Typical Junction Capacitance

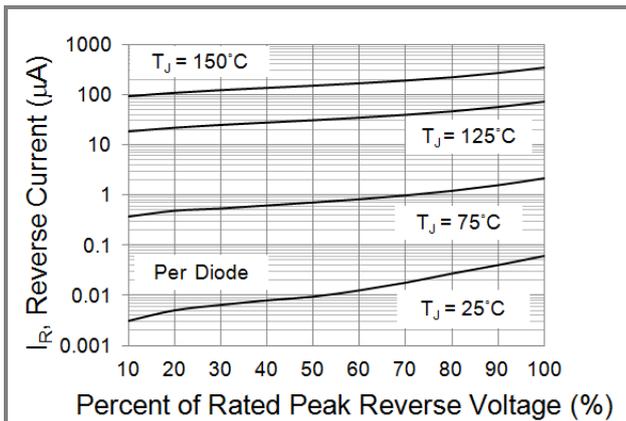


Fig.3 Typical Reverse Characteristics

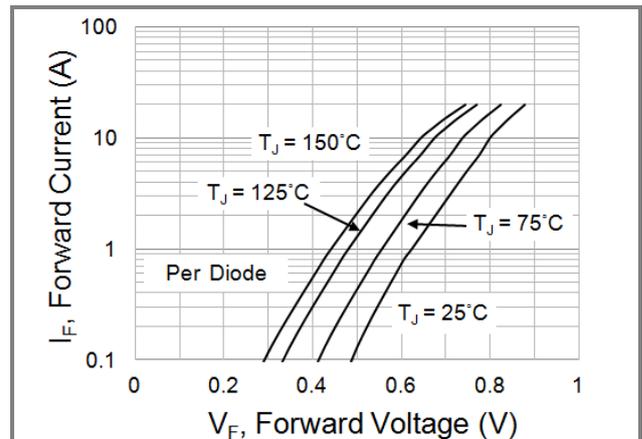


Fig.4 Typical Forward Characteristics

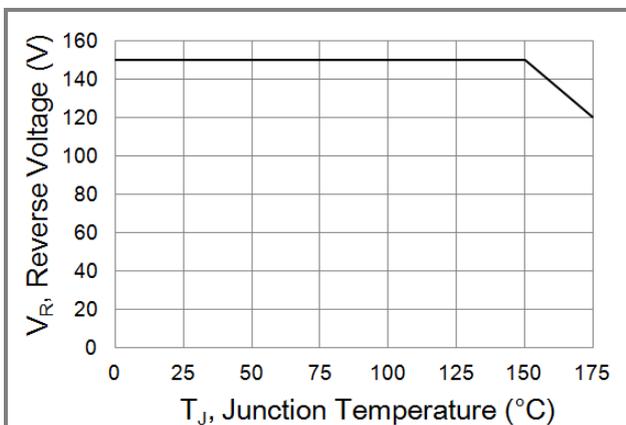


Fig.5 Operating Temperature Derating Curve



MBR20H150FAT

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR20H150FAT_T0_00001	ITO-220AB	50pcs / Tube	MBR20H150FAT	Halogen free



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