

MBR20200FAT

20A SCHOTTKY BARRIER RECTIFIERS

Voltage

200 V

Current

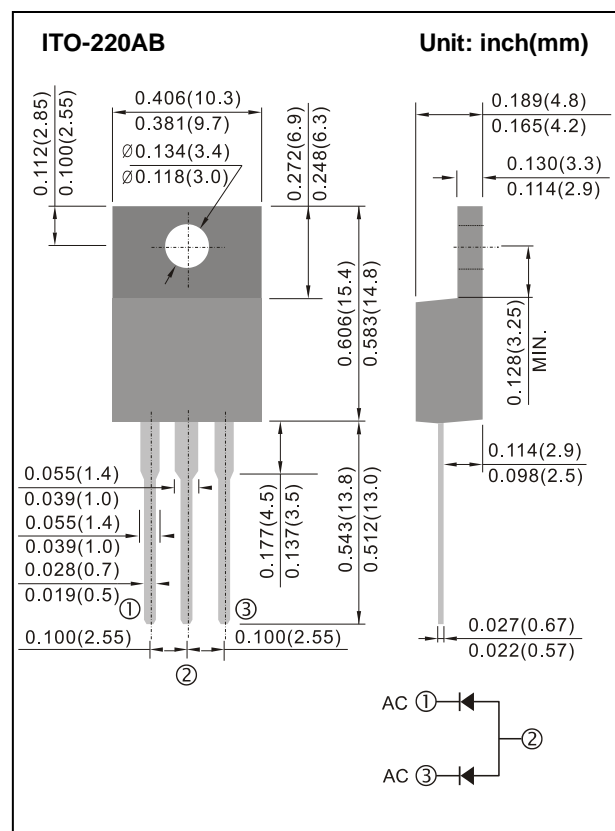
20 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarity 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, ITO-220AB
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.056 ounces, 1.6 grams
- Marking: Part number



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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	200	V
Maximum rms voltage		V_{RMS}	140	V
Maximum dc blocking voltage		V_R	200	V
Maximum average forward rectified current	per device per diode	$I_{F(AV)}$	20 10	A
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	$T_J = 25^\circ\text{C}$	V_F	0.9	V
	$T_J = 125^\circ\text{C}$		0.85	
Maximum dc reverse current at rated dc blocking voltage per diode	$T_J = 25^\circ\text{C}$	I_R	5	μA
	$T_J = 125^\circ\text{C}$		5	mA
Typical thermal resistance per diode (Note 1)		$R_{\theta JC}$	7.7	$^\circ\text{C/W}$
Operating junction temperature range		T_J	-55 to +150	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55 to +150	$^\circ\text{C}$

Note : 1. Semi-infinite heatsink.

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TYPICAL CHARACTERISTIC CURVES

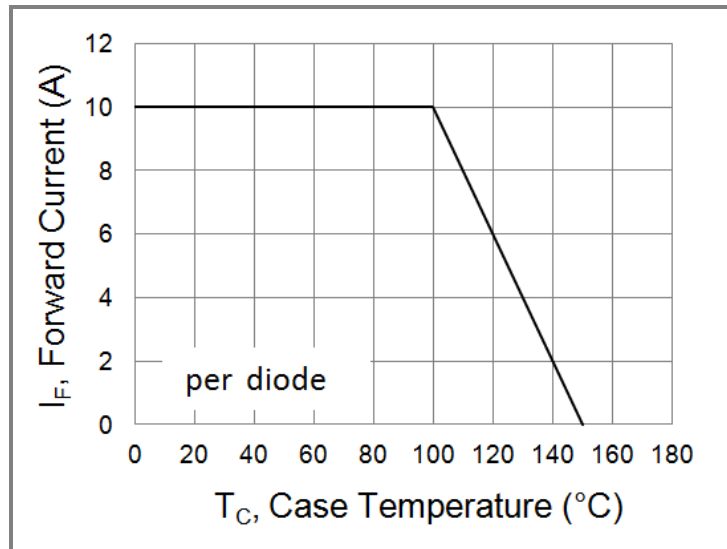


Fig.1 Forward Current Derating Curve

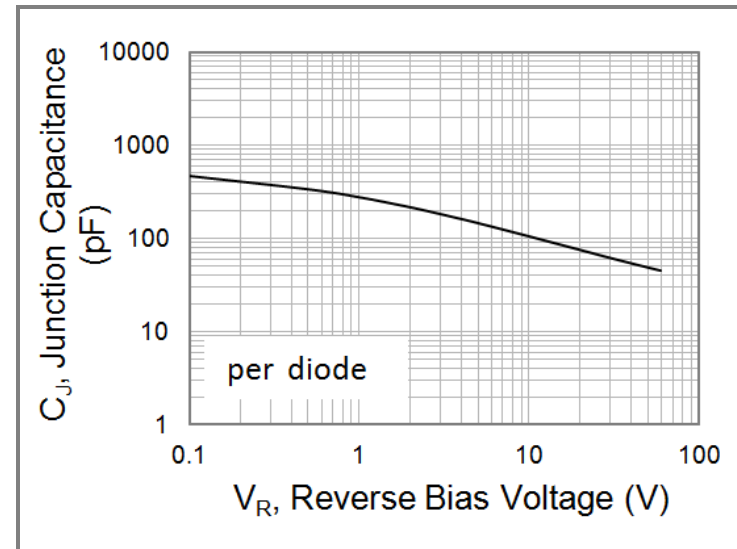


Fig.2 Typical Junction Capacitance

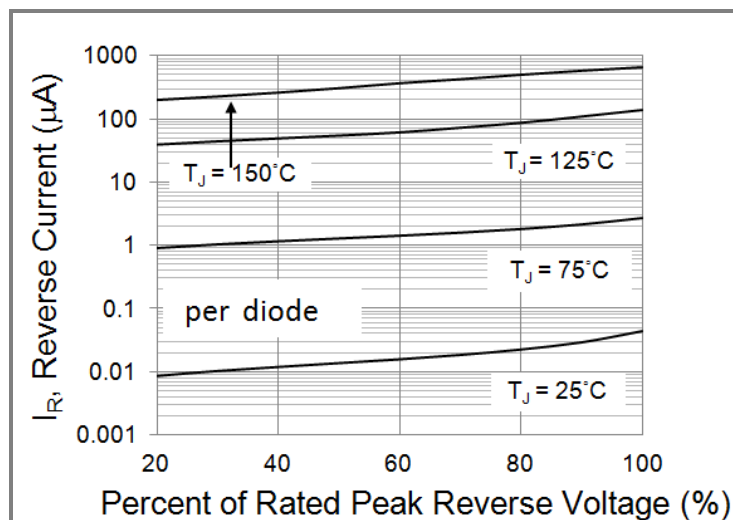


Fig.3 Typical Reverse Characteristics

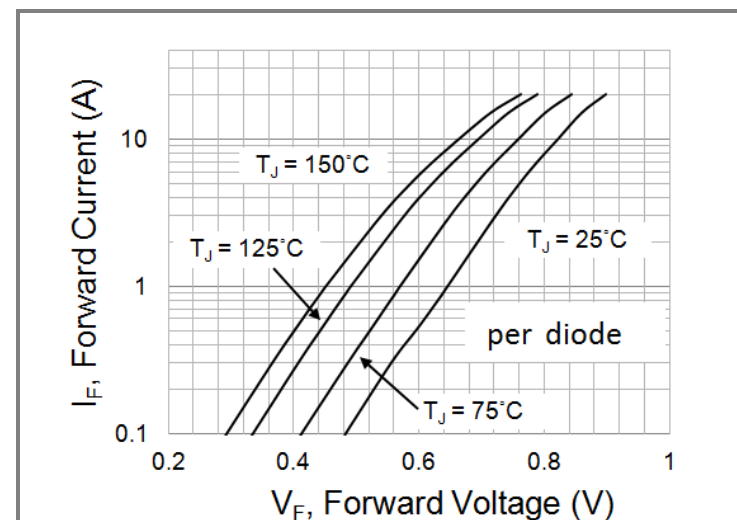


Fig.4 Typical Forward Characteristics

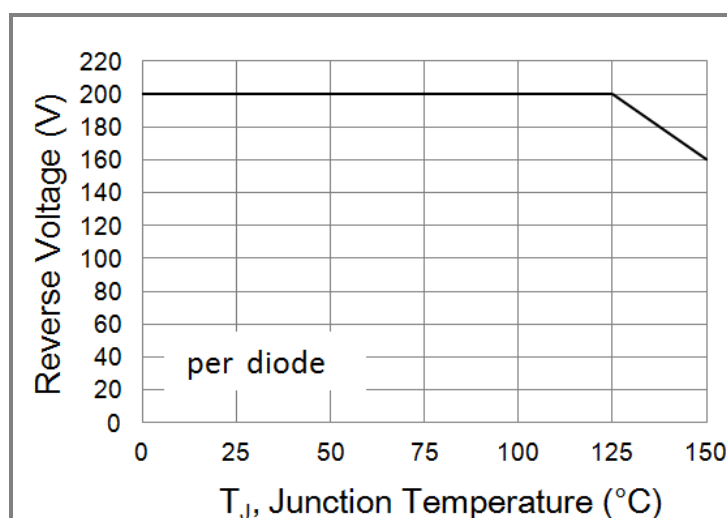


Fig.5 Operating Temperature Derating Curve



MBR20200FAT

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR20200FAT_T0_00001	ITO-220AB	50pcs / Tube	MBR20200FAT	Halogen free



MBR20200FAT

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