



MBR20100FCT

Schottky Barrier Rectifier

Voltage 100 V **Current** 20 A

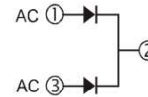
Features

- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: ITO-220AB-1 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0765 ounces, 2.17 grams

ITO-220AB-1



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum Rms Voltage	V _{RMS}	70	V
Maximum Dc Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Current	I _{F(AV)}	20	A
per device		10	
per diode			
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load per diode	I _{FSM}	200	A
Typical Junction Capacitance	C _J	263	pF
Measured at 1 MHz And Applied V _R = 4 V			
Typical Thermal Resistance per diode	R _{θJC} ⁽¹⁾	2	°C/W
Operating Junction Temperature Range	T _J	-65~175	°C
Storage Temperature Range	T _{STG}	-65~175	°C



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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	0.51	-	V
		$I_F = 10\text{ A}, T_J = 25^\circ\text{C}$	-	0.77	0.8	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.4	-	
		$I_F = 10\text{ A}, T_J = 125^\circ\text{C}$	-	0.63	-	
Reverse Current	$I_R^{(2)}$	$V_R = 100\text{ V}, T_J = 25^\circ\text{C}$	-	-	0.05	mA
		$V_R = 100\text{ V}, T_J = 125^\circ\text{C}$	-	-	20	

NOTES:

1. Mounted on infinite heatsink
2. Short duration pulse test used to minimize self-heating effect



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TYPICAL CHARACTERISTIC CURVES

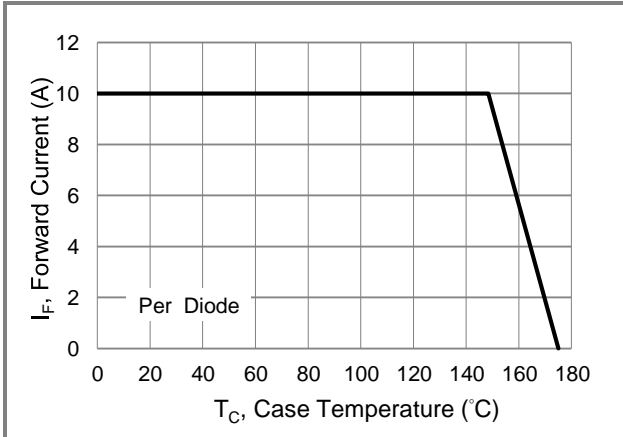


Fig.1 Forward Current Derating Curve

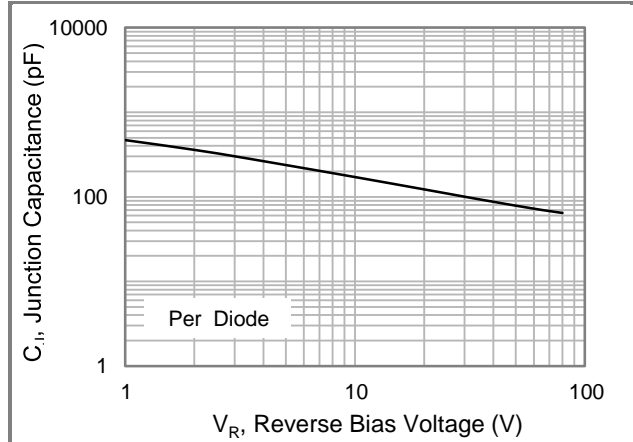


Fig.2 Typical Junction Capacitance

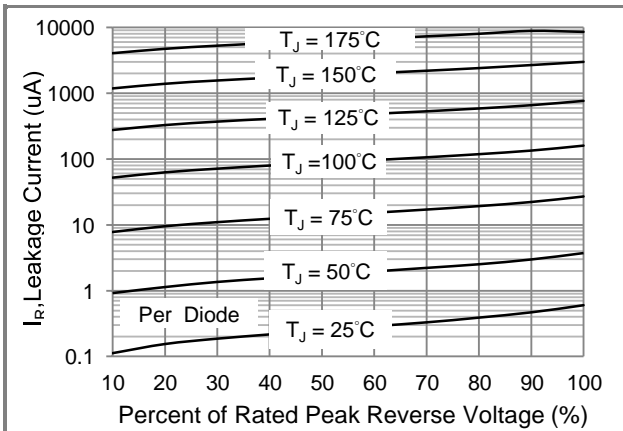


Fig.3 Typical Reverse Characteristics

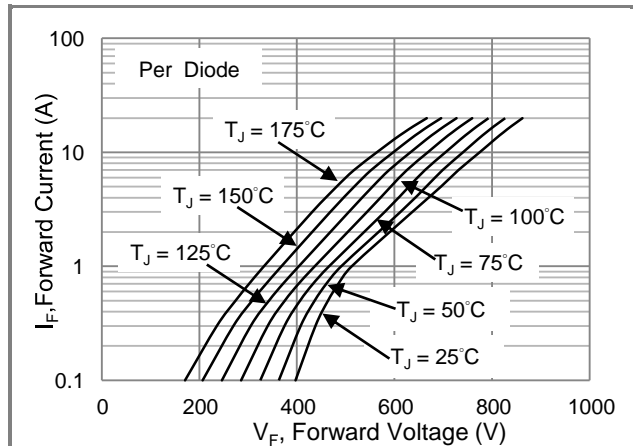


Fig.4 Typical Forward Characteristics

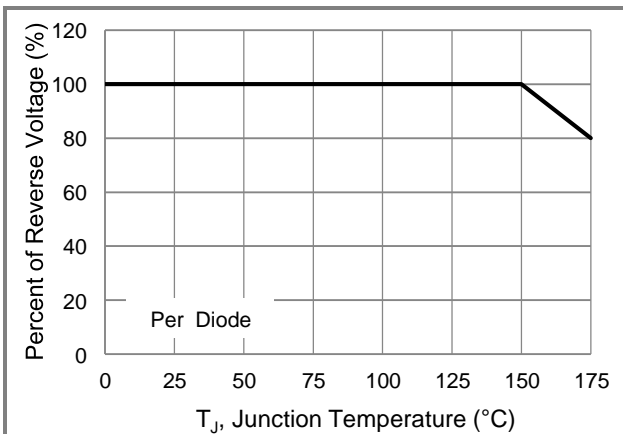


Fig.5 Operating Temperature Derating Curve

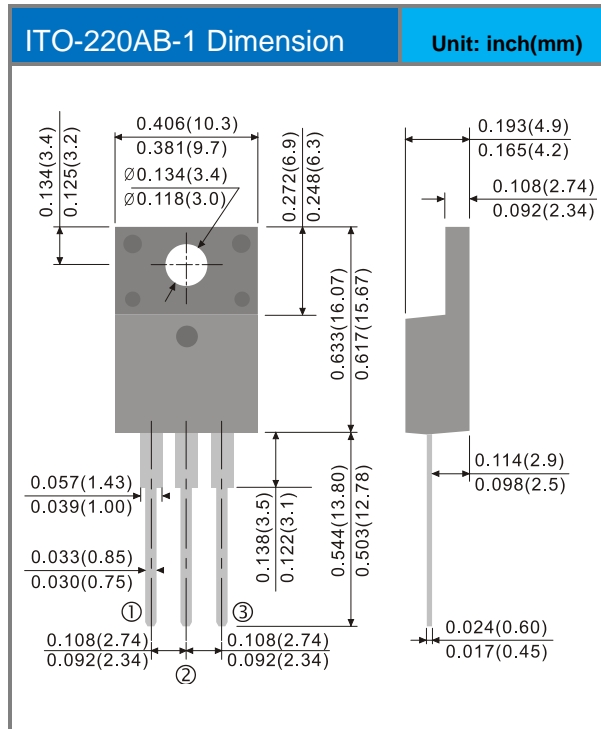


MBR20100FCT

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR20100FCT_T0_00101	ITO-220AB-1	50pcs / Tube	MBR20100FCT	Halogen free

Packaging Information





MBR20100FCT

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