



# MBR20100FCT

## Schottky Barrier Rectifier

**Voltage** 100 V **Current** 20 A

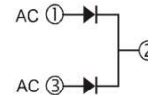
### Features

- 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<sub>A</sub> = 25 °C unless otherwise noted)

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



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

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

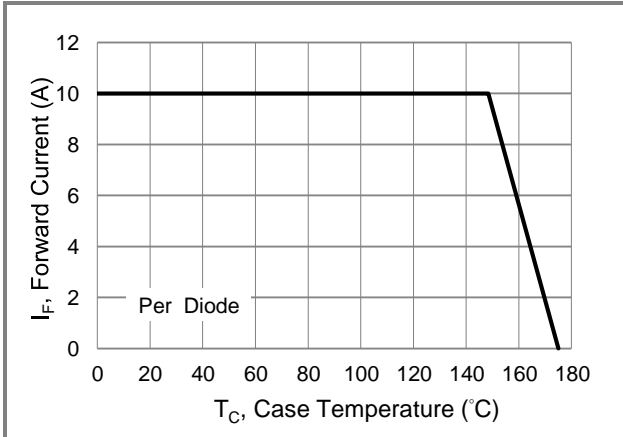


Fig.1 Forward Current Derating Curve

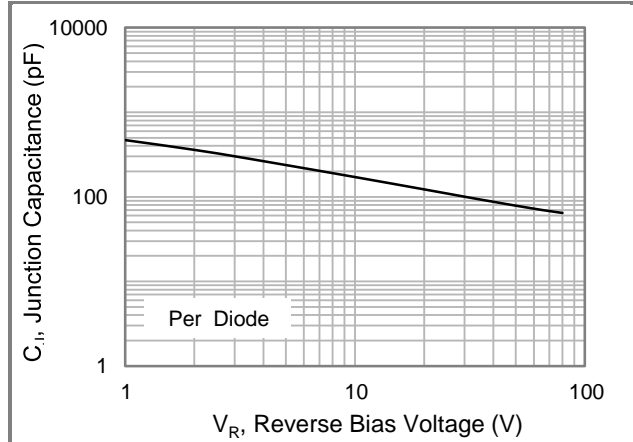


Fig.2 Typical Junction Capacitance

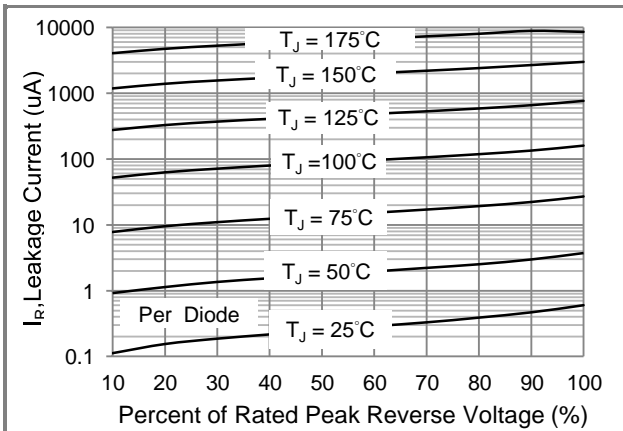


Fig.3 Typical Reverse Characteristics

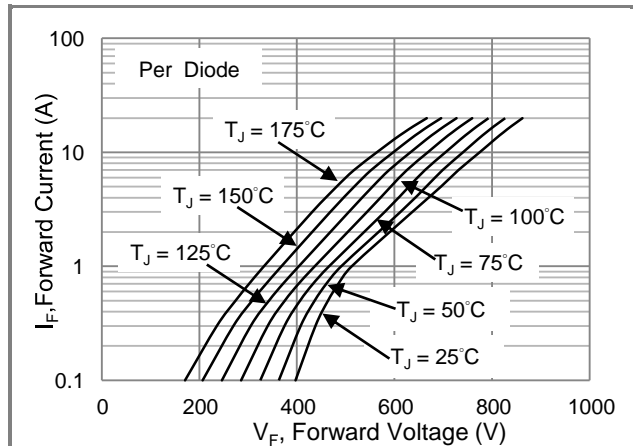


Fig.4 Typical Forward Characteristics

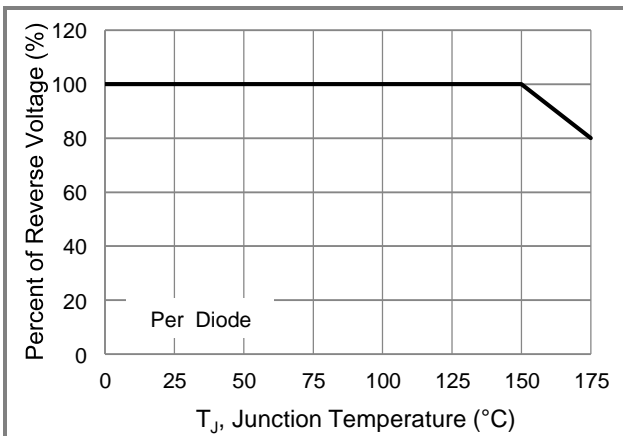


Fig.5 Operating Temperature Derating Curve

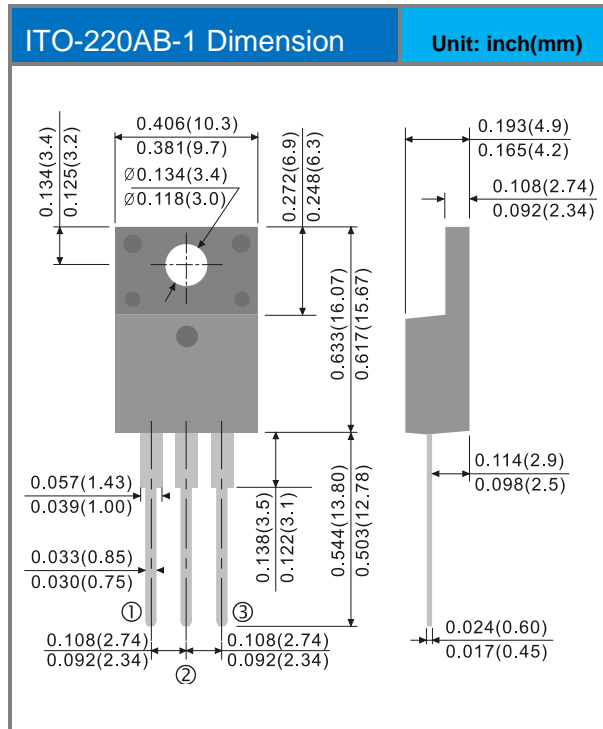


# MBR20100FCT

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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