



MBR20100FCT

Schottky Barrier Rectifier

Voltage 100 V Current 20 A

Features

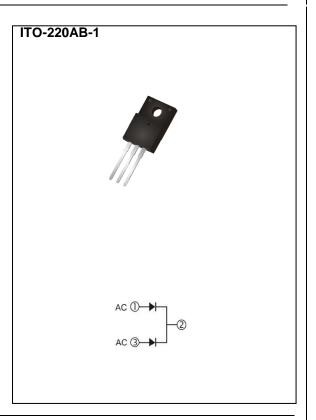
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: ITO-220AB-1 Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0765 ounces, 2.17 grams



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	per device		20	А	
	per diode	l _{F(AV)}	10		
Peak Forward Surge Current: 8.3 ms Single Wave Superimposed On Rated Load per di	Ifsм	200	А		
Typical Junction Capacitance	0	000	pF		
Measured at 1 MHZ And Applied V _R = 4 V		CJ		263	
Typical Thermal Resistance per diode		R ₀ JC ⁽¹⁾	2	°C/W	
Operating Junction Temperature Range	TJ	-65~175	°C		
Storage Temperature Range	T _{STG}	-65~175	°C		





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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Environd Walterna		I _F = 1 A, T _J = 25 °C	-	0.51	-	V
		I _F = 10 A, T _J = 25 °C	-	0.77	0.8	
Forward Voltage	VF	I _F = 1 A, T _J = 125 °C	-	0.4	-	
		I _F = 10 A, T _J = 125 °C	-	0.63	-	
Daylara Current	_R (2)	V _R = 100 V, T _J = 25 °C	-	-	0.05	mA
Reverse Current		V _R = 100 V, T _J = 125 °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

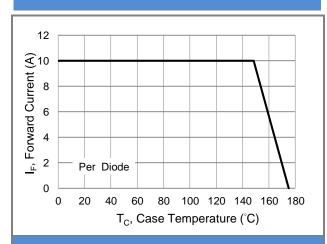


Fig.1 Forward Current Derating Curve

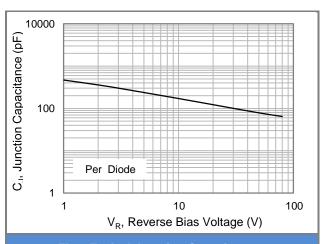


Fig.2 Typical Junction Capacitance

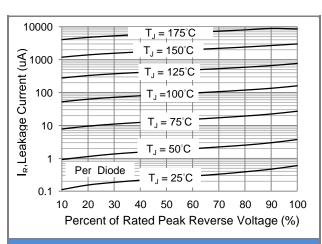


Fig.3 Typical Reverse Characteristics

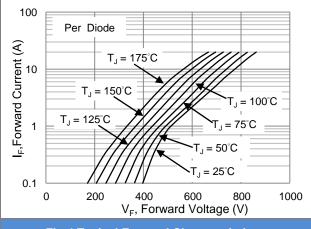


Fig.4 Typical Forward Characteristics

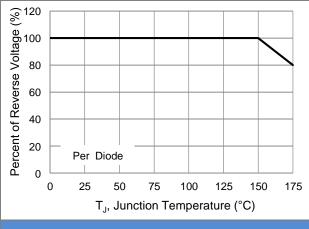


Fig.5 Operating Temperature Derating Curve



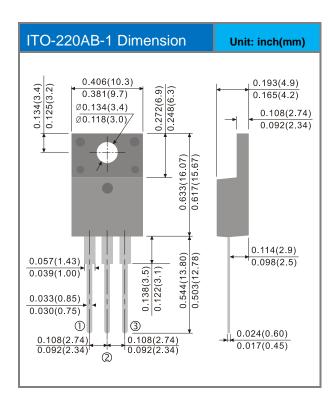


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Part No Packing Code Version

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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