



MBR20100DC-AU

SCHOTTKY BARRIER RECTIFIER

Voltage

100 V

Current

20 A

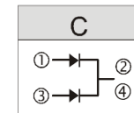
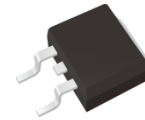
Features

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: TO-263 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.049 ounces, 1.38 grams

TO-263



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	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	200	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V	C _J	380	pF
Typical Thermal Resistance	R _{θJC} ⁽¹⁾	2	°C/W
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°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
		$I_F = 3\text{ A}, T_J = 25^\circ\text{C}$	-	0.61	-	
		$I_F = 10\text{ A}, T_J = 25^\circ\text{C}$	-	-	0.80	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.4	-	
		$I_F = 3\text{ A}, T_J = 125^\circ\text{C}$	-	0.51	-	
		$I_F = 10\text{ A}, T_J = 125^\circ\text{C}$	-	0.64	-	
Reverse Current	$I_R^{(2)}$	$V_R = 80\text{ V}, T_J = 25^\circ\text{C}$	-	1	-	uA
		$V_R = 100\text{ V}, T_J = 25^\circ\text{C}$	-	-	50	
		$V_R = 100\text{ V}, T_J = 125^\circ\text{C}$	-	1.2	-	mA

NOTES:

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



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TYPICAL CHARACTERISTIC CURVES

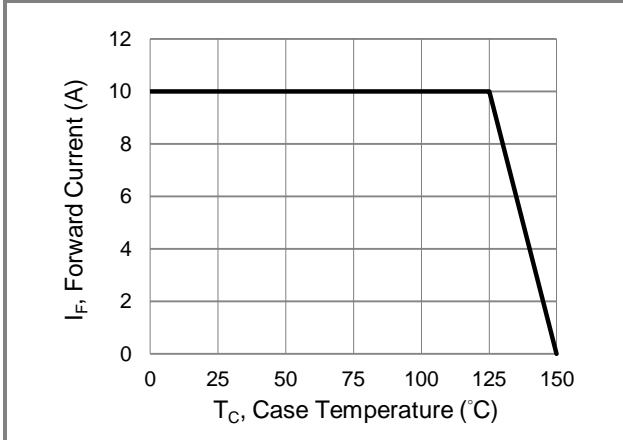


Fig.1 Forward Current Derating Curve

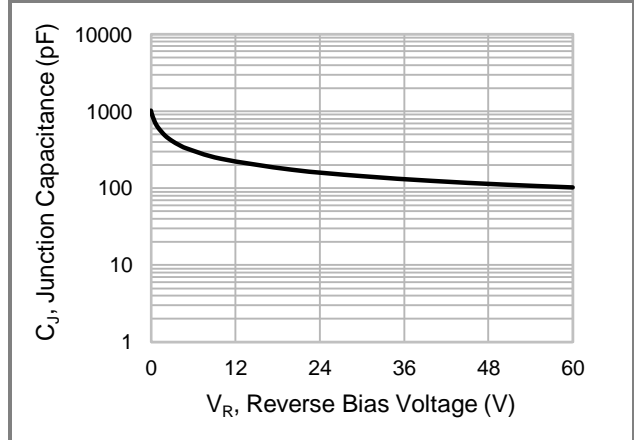


Fig.2 Typical Junction Capacitance

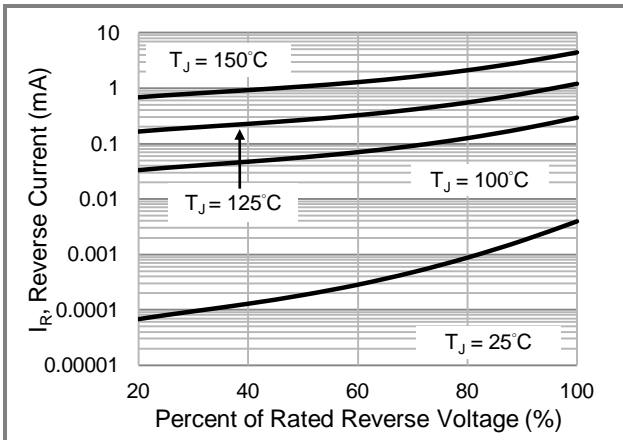


Fig.3 Typical Reverse Characteristics

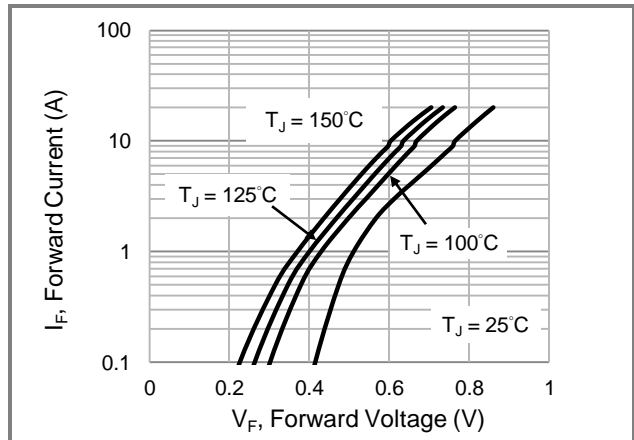


Fig.4 Typical Forward Characteristics

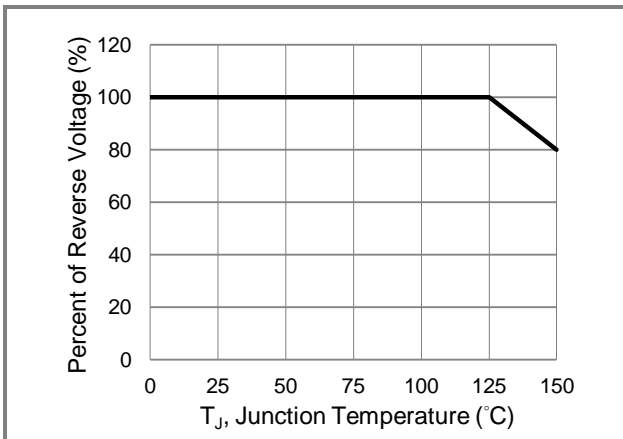


Fig.5 Operating Temperature Derating Curve

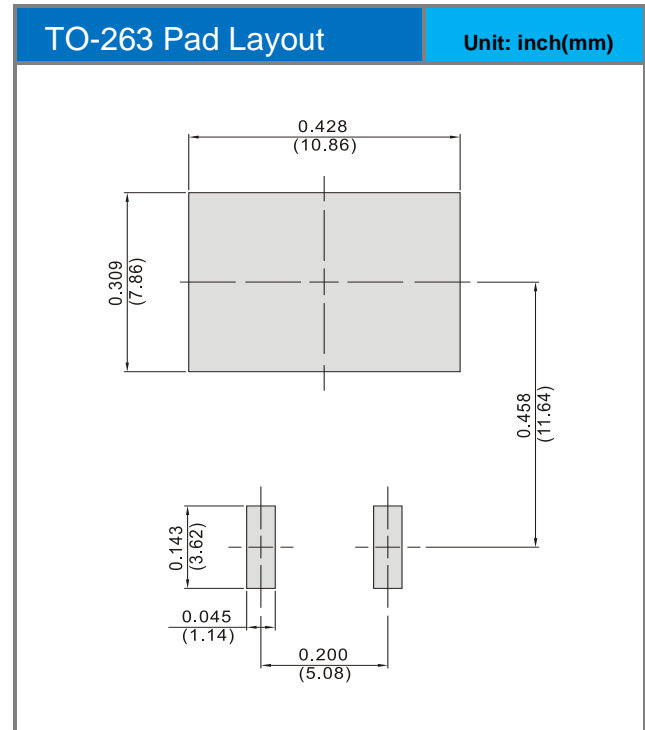
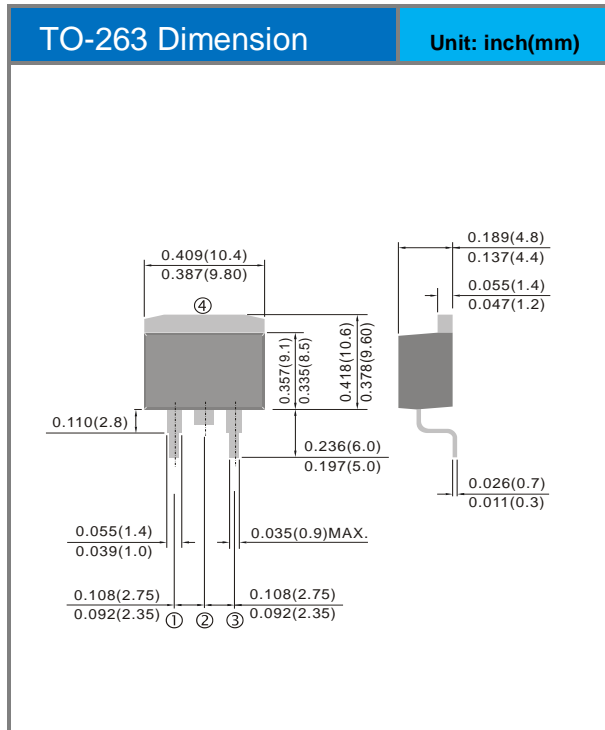


MBR20100DC-AU

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR20100DC-AU_R2_000A1	TO-263	800 pcs / 13" reel	MBR20100DC	Halogen free

Packaging Information & Mounting Pad Layout





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