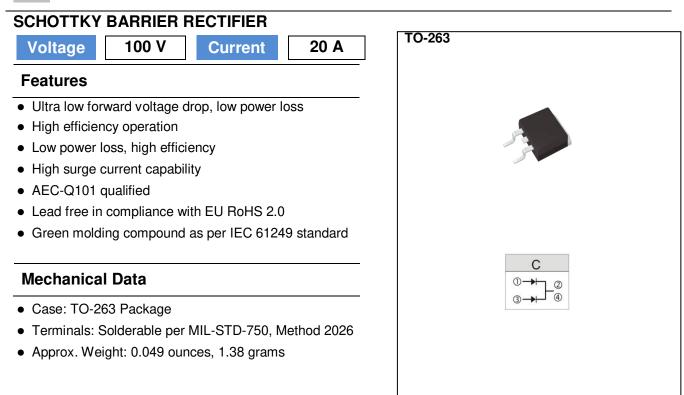
ΡΛΝ	ĴΪΤ
	SEMI CONDUCTOR



### **Maximum Ratings and Thermal Characteristics** ( $T_A = 25^{\circ}C$ 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		20	
	per diode	I <sub>F(AV)</sub>	10	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-		I <sub>FSM</sub>	200	
Wave Superimposed On Rated Load	posed On Rated Load			A
Typical Junction Capacitance			000	_
Measured at 1 MHZ And Applied $V_R = 4 V_R$	CJ	380	pF	
Typical Thermal Resistance		$R_{\theta JC}$ (1)	2	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T <sub>STG</sub>	-55~150	°C



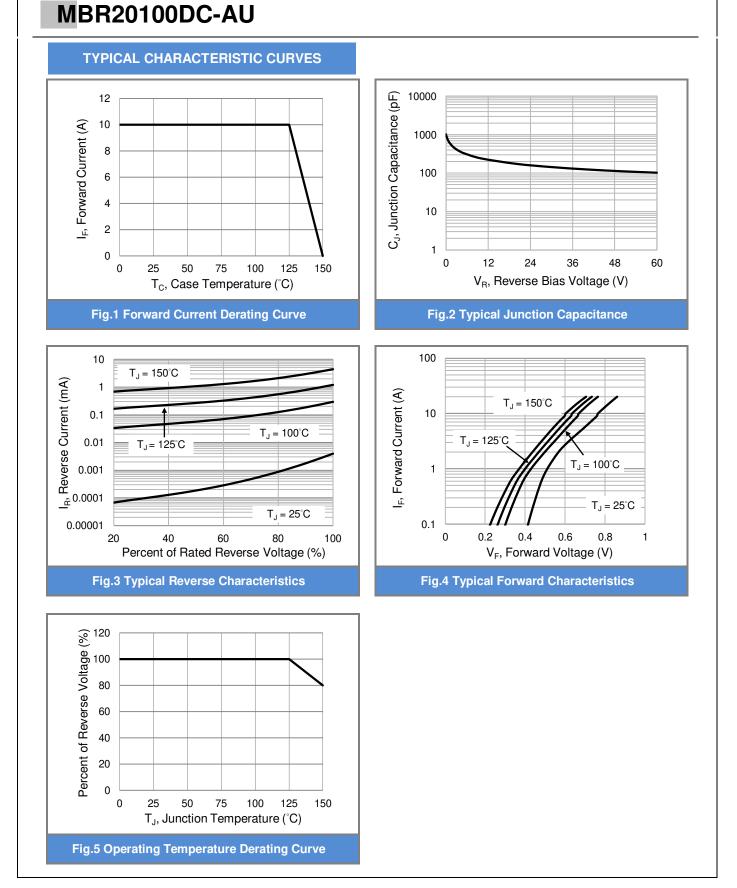


### **Electrical Characteristics** ( $T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °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 <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.4	-	
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 125 °C	-	0.51	-	
		I <sub>F</sub> = 10 A, T <sub>J</sub> = 125 °C	-	0.64	-	
Reverse Current I <sub>R</sub> <sup>(2)</sup>	I <sub>R</sub> <sup>(2)</sup>	$V_{R} = 80 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	1	-	
		$V_{R} = 100 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	uA
		V <sub>R</sub> = 100V,T <sub>J</sub> = 125 °C	-	1.2	-	mA

NOTES:

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





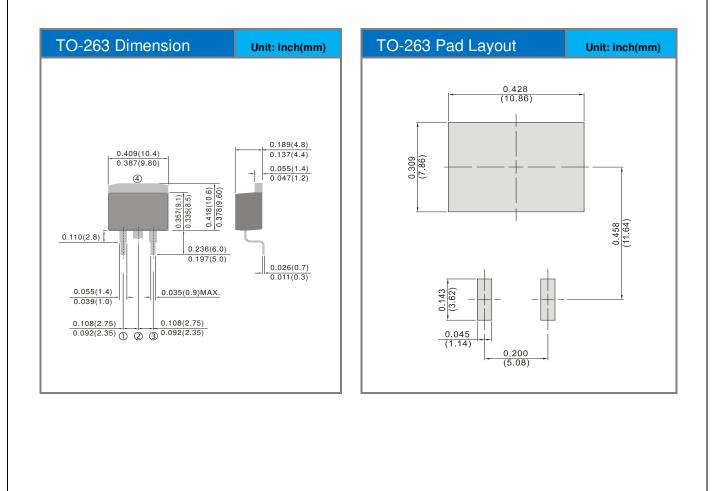




#### Part No Packing Code Version

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

#### Packaging Information & Mounting Pad Layout





#### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.