



MBR10H150PC

Surface Mount Ultra Low I_R Schottky Barrier Rectifier

Voltage

150 V

Current

10 A

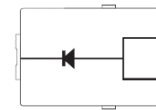
Features

- Low leakage current
- Ideal for automated placement
- 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 : TO-277C package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.11 grams

TO-277C



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	V
Maximum RMS Voltage	V _{RMS}	105	V
Maximum DC Blocking Voltage	V _{DC}	150	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10	A
Peak Forward Surge Current : 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	250	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V	C _J	240	pF
Typical Thermal Resistance	(Note 1) R _{θJA}	65	°C/W
	(Note 2) R _{θJC}	15	
	(Note 2) R _{θJL}	12	
Operating Junction Temperature Range	T _J	-55~175	°C
Storage Temperature Range	T _{STG}	-55~175	°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	$I_F = 3\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	0.71	-	V
		$I_F = 5\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	0.75	-	
		$I_F = 10\text{ A}, T_J = 25\text{ }^\circ\text{C}$	-	-	0.85	
		$I_F = 3\text{ A}, T_J = 125\text{ }^\circ\text{C}$	-	0.57	-	
		$I_F = 5\text{ A}, T_J = 125\text{ }^\circ\text{C}$	-	0.61	-	
		$I_F = 10\text{ A}, T_J = 125\text{ }^\circ\text{C}$	-	0.67	-	
Reverse Current	I_R	$V_R = 120\text{ V}, T_J = 25\text{ }^\circ\text{C}$	-	30	-	nA
		$V_R = 150\text{ V}, T_J = 25\text{ }^\circ\text{C}$	-	-	0.55	uA
		$V_R = 150\text{ V}, T_J = 125\text{ }^\circ\text{C}$	-	-	240	

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.



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TYPICAL CHARACTERISTIC CURVES

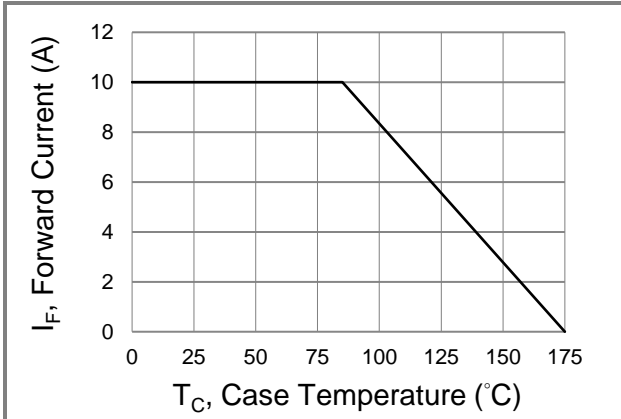


Fig.1 Forward Current Derating Curve

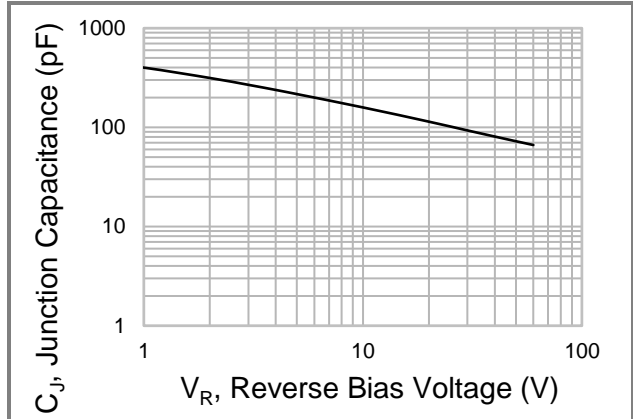


Fig.2 Typical Junction Capacitance

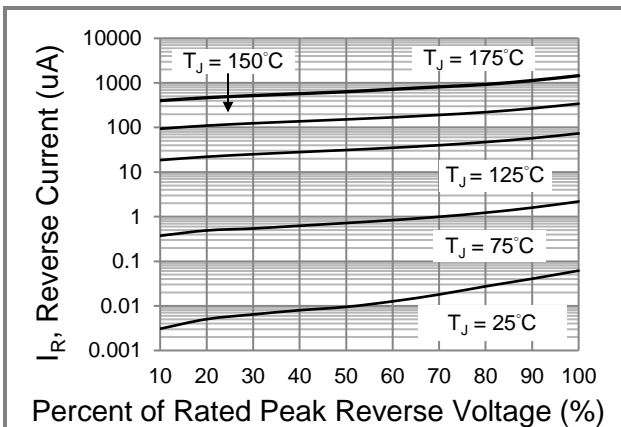


Fig.3 Typical Reverse Characteristics

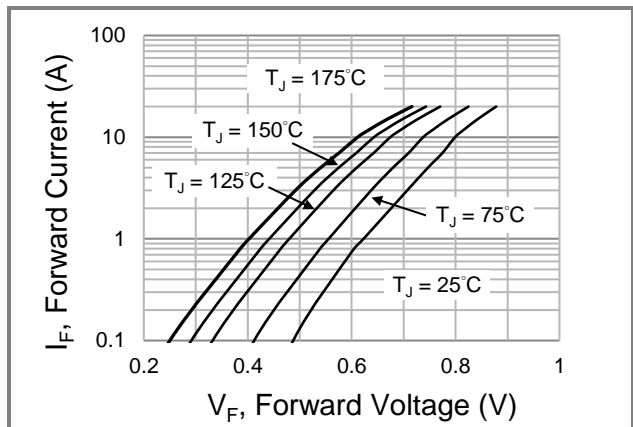


Fig.4 Typical Forward Characteristics

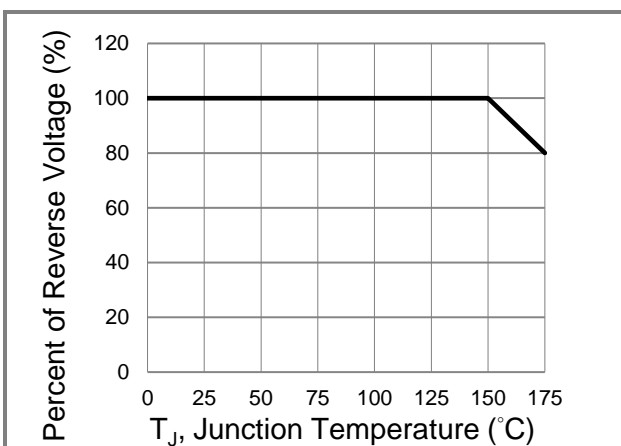


Fig.5 Operating Temperature Derating Curve

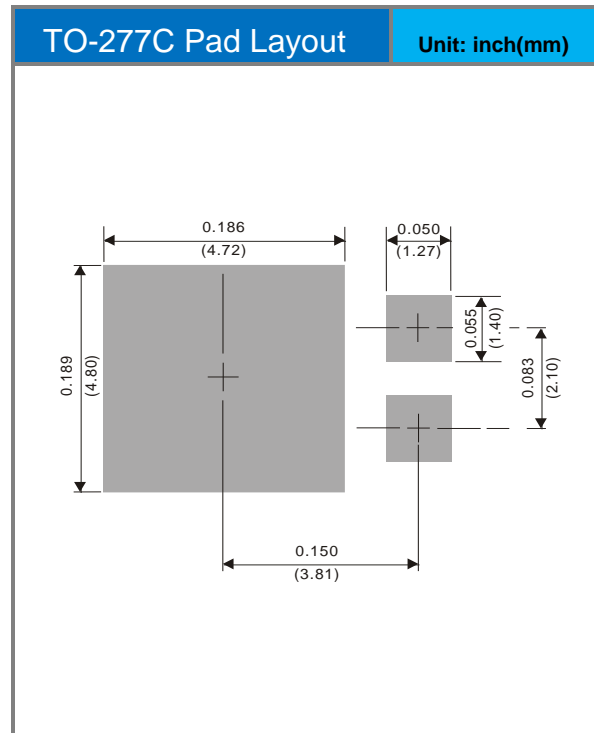
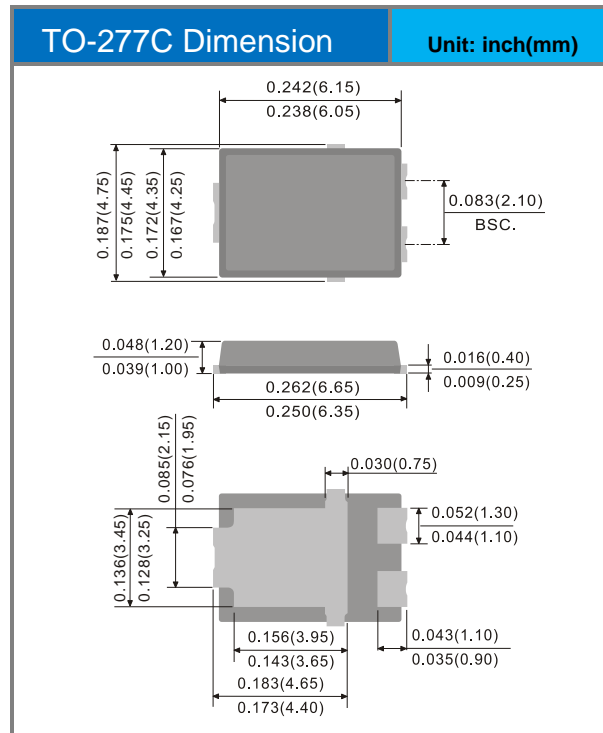


MBR10H150PC

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MBR10H150PC	TO-277C	5K pcs / 13" reel	MBR10H150PC

Packaging Information & Mounting Pad Layout





MBR10H150PC

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