

### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	150	V	
Maximum RMS Voltage		V <sub>RMS</sub>	105	V	
Maximum DC Blocking Voltage		VDC	150	V	
Maximum Average Forward Rectified Current		IF(AV)	5	А	
Peak Forward Surge Current : 8.3 ms single half sine- wave superimposed on rated load		IFSM	150	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		С	130	pF	
	(Note 1)	R <sub>0JA</sub>	65		
Typical Thermal Resistance	(Note 2)	R <sub>θJC</sub>	18	°C/W	
	(Note 2)	R <sub>θJL</sub>	14		
Operating Junction Temperature Range		TJ	-55~175	٥C	
Storage Temperature Range		Тѕтс	-55~175	٥C	





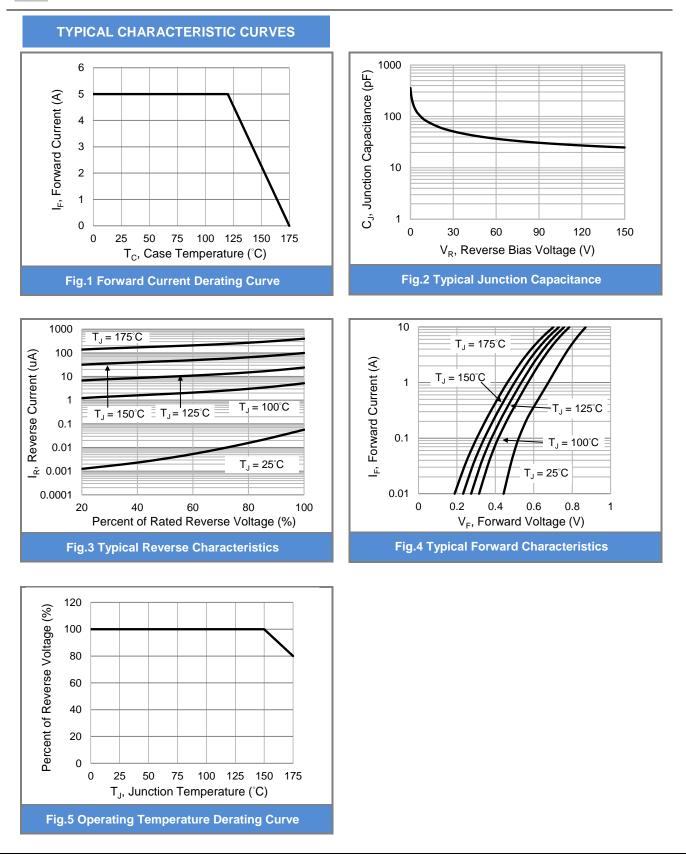
#### **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	$I_F = 1 \text{ A}, T_J = 25 \text{ °C}$	-	0.68	-	V
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 25 °C	-	0.76	-	
		I <sub>F</sub> = 5 A, T <sub>J</sub> = 25 °C	-	-	0.85	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.54	-	
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 125 °C	-	0.63	-	
		I <sub>F</sub> = 5 A, T <sub>J</sub> = 125 °C	-	0.67	-	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 120 V, T <sub>J</sub> = 25 °C	-	16	-	nA
		V <sub>R</sub> = 150 V, T <sub>J</sub> = 25 °C	-	-	0.5	uA
		V <sub>R</sub> = 150 V, T <sub>J</sub> = 125 °C	-	-	130	

NOTES :

- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area.







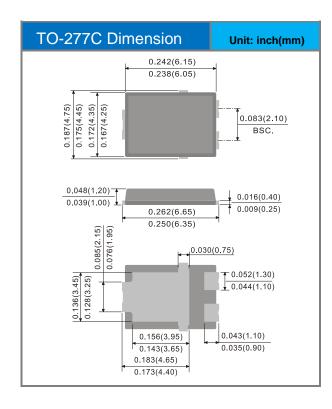


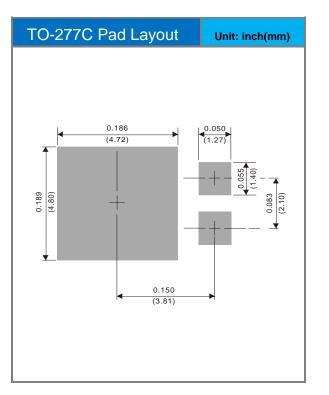


#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
MBR5H150PC	TO-277C	5K pcs / 13" reel	MBR5H150PC

### **Packaging Information & Mounting Pad Layout**







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