

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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	60	V
Maximum RMS Voltage	V _{RMS}	42	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10	А
Peak Forward Surge Current : 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}	300	A
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	450	pF
(Note 1)	Reja	65	
Typical Thermal Resistance (Note 2)	Rejc	17	°C/W
(Note 2)	R _{θJL}	13	
Operating Junction Temperature Range	TJ	-55~175	٥C
Storage Temperature Range	T _{STG}	-55~175	°C



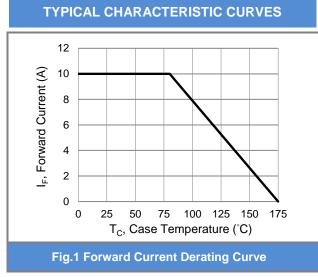
Electrical Characteristics (T_A = 25 °C unless otherwise noted)

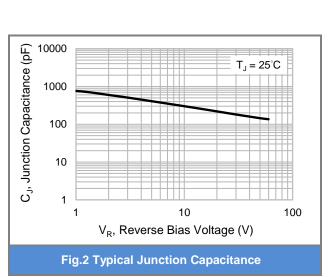
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.49	-	V
		I _F = 5 A, T _J = 25 °C	-	0.6	-	
		I _F = 10 A, T _J = 25 °C	-	0.68	0.75	
		$I_F = 1 \text{ A}, T_J = 125 \text{ °C}$	-	0.38	-	
		I _F = 5 A, T _J = 125 °C	-	0.51	-	
		$I_F = 10 \text{ A}, T_J = 125 ^{\circ}\text{C}$	-	0.6	-	
Reverse Current	I _R	V _R = 48 V, T _J = 25 °C	-	200	-	nA
		V _R = 60 V, T _J = 25 °C	-	0.54	5	uA
		V _R = 60 V, T _J = 125 °C	-	0.27	2.2	mA

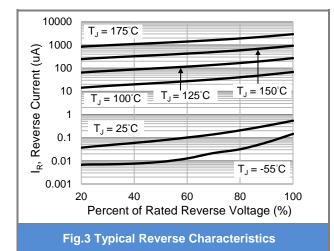
NOTES :

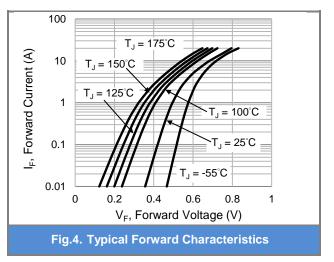
- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.









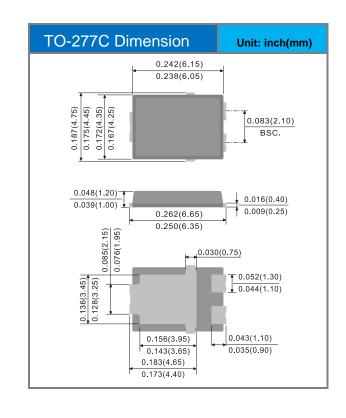


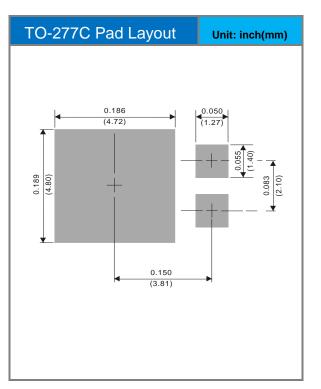


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MBR10H60PC-AU	TO-277C	5K pcs / 13" reel	MBR10H60PC

Packaging Information & Mounting Pad Layout







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