

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	VDC	60	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	I _{FSM}	190	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	250	pF
(Note 1)	Reja	65	
Typical Thermal Resistance (Note 2)	Rejc	22	°C/W
(Note 2)	Rejl	15	
Operating Junction Temperature Range	TJ	-55~175	°C
Storage Temperature Range	Tstg	-55~175	°C



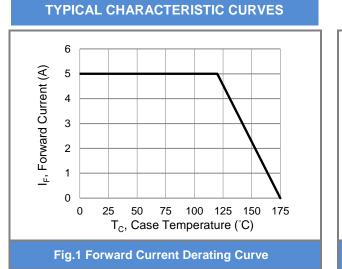
Electrical Characteristics (T_A = 25 °C unless otherwise noted)

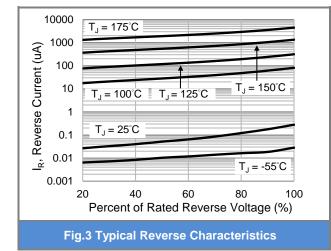
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 1 A, T _J = 25 °C	-	0.52	-	V	
		I _F = 3 A, T _J = 25 °C	-	0.61	-		
		I _F = 5 A, T _J = 25 °C	-	-	0.75		
		I _F = 1 A, T _J = 125 °C	-	0.41	-		
		I _F = 3 A, T _J = 125 °C	-	0.51	-		
		I _F = 5 A, T _J = 125 °C	-	0.57	-		
Reverse Current	I _R	V _R = 48 V, T _J = 25 °C	-	0.12	-		
		V _R = 60 V, T _J = 25 °C	-	0.28	5	uA	
		V _R = 60 V, T _J = 125 °C	-	0.32	2.2	mA	

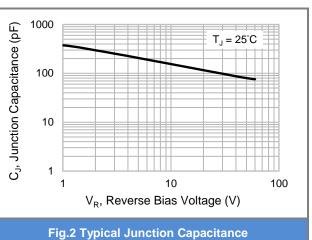
NOTES :

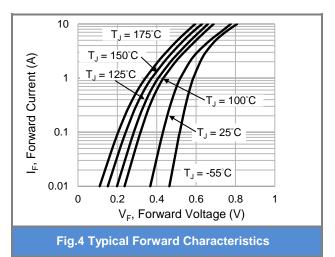
- 1. Mounted on a FR4 PCB, single-sided copper, standard footprint.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.









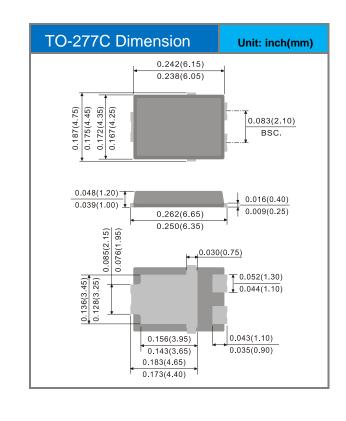


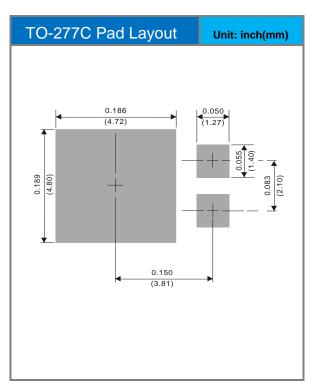


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MBR5H60PC	TO-277C	5K pcs / 13" reel	MBR5H60PC

Packaging Information & Mounting Pad Layout







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