

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

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	60	V	
Maximum RMS Voltage		V _{RMS}	42	V	
Maximum DC Blocking Voltage		V _{DC}	60	V	
Maximum Average Forward Current	per device		10	A	
	per diode	IF(AV)	5		
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load Per Diode		I _{FSM}	150	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	186	pF	
Typical Thermal Resistance	(Note 1)	Reja	52		
	(Note 2)	Rejc	6.5	°C/W	
	(Note 2)	Rejl	4		
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 Per Diode	VF	I _F = 1 A, T _J = 25 °C	-	0.46	-		
		I _F = 3 A, T _J = 25 °C	-	0.57	-	V	
		I _F = 5 A, T _J = 25 °C	-	-	0.75		
		I⊧ = 1 A, TJ = 125 °C	-	0.36	-		
		I _F = 3 A, T _J = 125 °C	-	0.51	-		
		I _F = 5 A, T _J = 125 °C	-	0.57	-		
Reverse Current Per Diode	IR	V _R = 48 V, T _J = 25 °C	-	1	-	uA	
		V _R = 60 V, T _J = 25 °C	-	-	50		
		V _R = 60V,T _J = 125 °C	-	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.



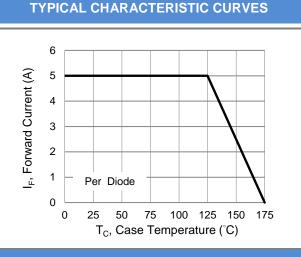


Fig.1 Forward Current Derating Curve

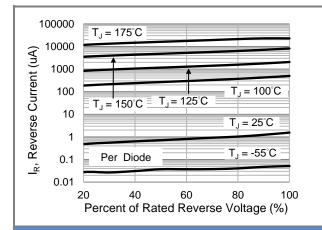
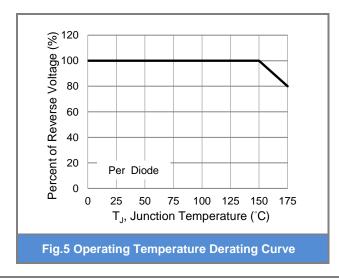
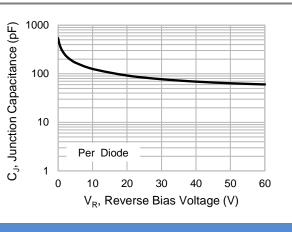


Fig.3 Typical Reverse Characteristics







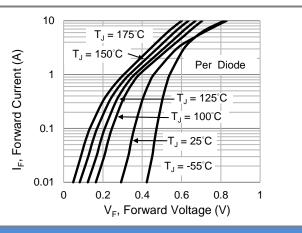


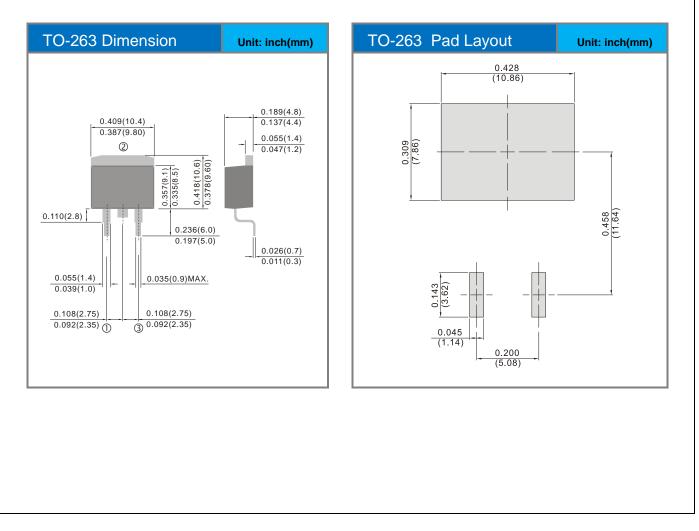
Fig.4 Typical Forward Characteristics



Product and Packing Information

Part No.	Package Type	Package Type Packing Type	
MBR1060DC-AU	TO-263	800 pcs / 13" reel	MBR1060DC

Packaging Information & Mounting Pad Layout





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