January	10,2018-REV.05
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Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	40	V
Maximum Rms Voltage		V _{RMS}	28	V
Maximum Dc Blocking Voltage	V _{DC}	40	V	
	per device		20	А
Maximum Average Forward Current	per diode	I _{F(AV)}	10	
Peak Forward Surge Current: 8.3 ms Sing	I _{FSM}	000	A	
Wave Superimposed On Rated Load		200		
Typical Junction Capacitance		540	pF	
Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	510		
Typical Thermal Resistance		$R_{ extsf{ heta}JC}$ (1)	2	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C



Current 20 A

Features

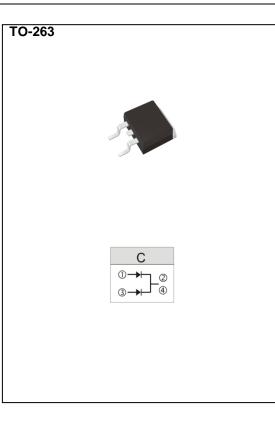
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low power loss, high efficiency

MBR2040DC-AU

- 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-263 Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.049 ounces, 1.38 grams





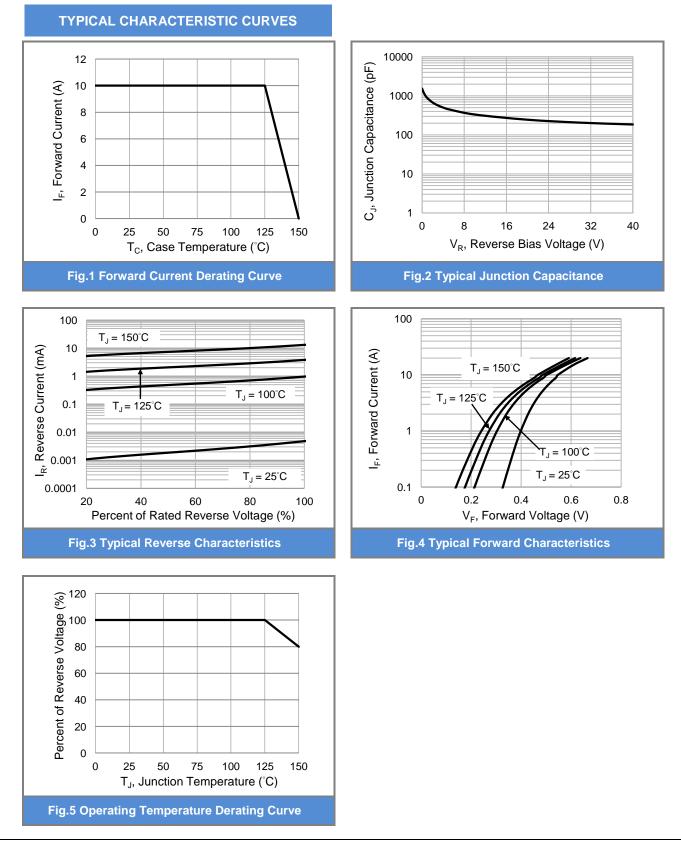


Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 1 A, T _J = 25 ^o C	-	0.40	-	V
		I _F = 3 A, T _J = 25 °C	-	0.45	-	
		$I_{F} = 10 \text{ A}, T_{J} = 25 ^{\circ}\text{C}$	-	-	0.70	
		I _F = 1 A, T _J = 125 °C	-	0.27	-	
		I _F = 3 A, T _J = 125 °C	-	0.34	-	
		I _F = 10 A, T _J = 125 °C	-	0.49	-	
Reverse Current	Ι _R ⁽²⁾	$V_{R} = 32 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	3	-	uA
		$V_{R} = 40 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	
		V _R = 40V,T _J = 125 °C	-	4	-	mA

NOTES:

- 1. Mounted on infinite heatsink.
- 2. Short duration pulse test used to minimize self-heating effect.





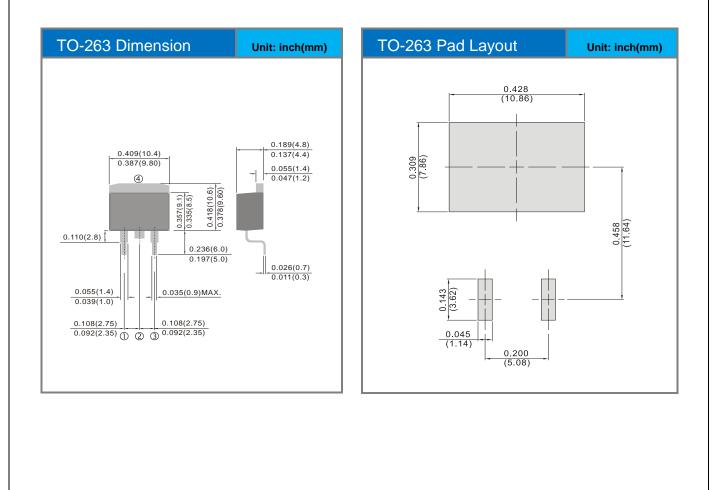




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR2040DC-AU_R2_000A1	TO-263	800 pcs / 13" reel	MBR2040DC	Halogen free

Packaging Information & Mounting Pad Layout





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