PAN	JIT
	SEMI
	CONDUCTOR

MBR2060YD SCHOTTKY BARRIER RECTIFIER **TO-252AA** Voltage 60 V Current 20 A Features • Low forward voltage drop • Deal for automated placement • Low power loss, high efficiency • High surge current capability • Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard **Mechanical Data** 1 2 • Case: TO-252AA Package 3 • Terminals: Solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.0105 ounces, 0.297 grams

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	I _{F(AV)}	20	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	150	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	480	pF
Typical Thermal Resistance	$R_{\theta JC}^{(1)}$	6	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





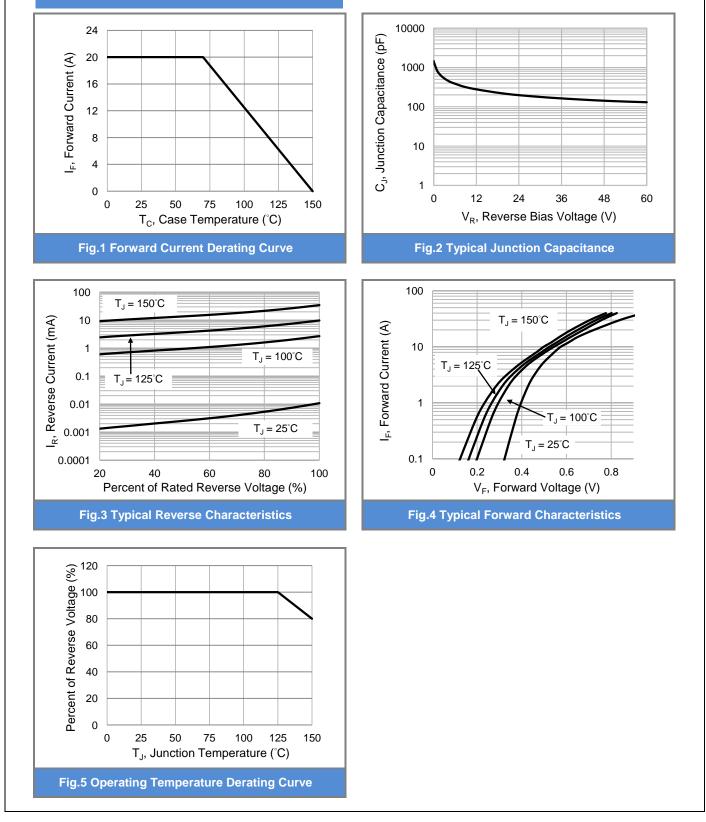
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PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	$I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$	-	0.4	-	V	
		$I_F = 10 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.63		
		$I_F = 20 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	0.77		
		$I_F = 1 \text{ A}, \text{ T}_J = 125 ^{\circ}\text{C}$	-	0.27	-		
		I _F = 5 A, T _J = 125 °C	-	0.41	-		
Reverse Current	۱ _R ⁽²⁾	$V_{R} = 48 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	5.5	-		
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	50	uA	
		$V_{R} = 60 \text{ V}, \text{ T}_{J} = 125 ^{\circ}\text{C}$	-	4	-	mA	

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 2. Short duration pulse test used to minimize self-heating effect.

September 10,2018-REV.00



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TYPICAL CHARACTERISTIC CURVES



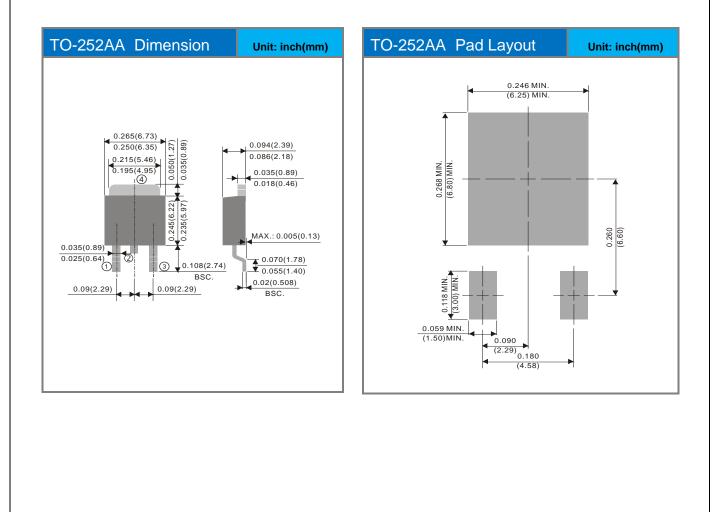


MBR2060YD

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type Marking		Version
MBR2060YD_L2_00001	TO-252AA	3K / 13" Reel	MBR2060YD	Halogen free

Packaging Information & Mounting Pad Layout





MBR2060YD

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