| ΡΛΝ | ĴΪΤ |
|-----|-------------------|
| | SEMI CONDUCTOR |

MBR20H150YD ULTRA LOW IR SCHOTTKY BARRIER RECTIFIERS TO-252AA Voltage 150 V Current 20 A Features • Ideal for automated placement • Ultra low leakage current, low power loss • High efficiency operation • Low thermal resistance Lead free in compliance with EU RoHS 2.0 • Green molding compound as per IEC 61249 standard 2 ന **Mechanical Data** • Case: TO-252AA package • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Weight: 0.0104 ounces, 0.297 grams.

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS |
|---|---------------------------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 150 | V |
| Maximum RMS Voltage | V _{RMS} | 105 | V |
| Maximum DC Blocking Voltage | V _{DC} | 150 | V |
| Maximum Average Forward Rectified Current | I _{F(AV)} | 20 | А |
| Peak Forward Surge Current: 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 275 | А |
| Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4 V$ | CJ | 350 | pF |
| Typical Thermal Resistance | $R_{	extsf{	heta}JC}$ (1) | 6 | °C/W |
| Operating Junction Temperature Range | TJ | -55~175 | °C |
| Storage Temperature Range | T _{STG} | -55~175 | °C |





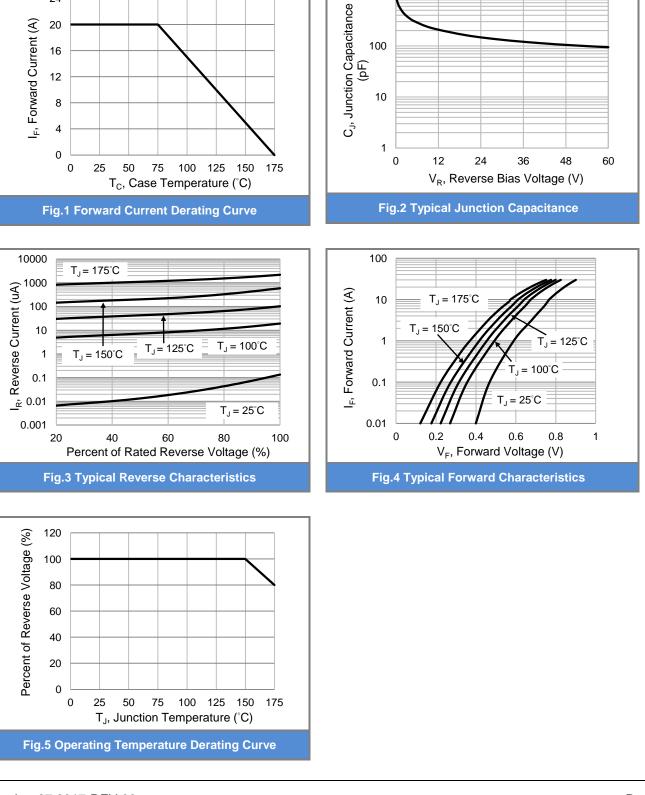
MBR20H150YD

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

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-------------------------------|-------------------------------|--|------|------|------|-------|
| Instantaneous forward voltage | V _F | $I_F = 1 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$ | - | 0.59 | - | - |
| | | $I_F = 5 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$ | - | 0.72 | - | |
| | | $I_F = 20 \text{ A}, \text{ T}_J = 25 ^{\circ}\text{C}$ | - | - | 0.9 | V |
| | | $I_F = 1 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$ | - | 0.45 | - | - |
| | | $I_F = 5 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$ | - | 0.58 | - | |
| Reverse current | I _R ⁽²⁾ | $V_{R} = 120 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$ | - | 0.04 | - | uA |
| | | $V_{R} = 150 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$ | - | - | 0.8 | |
| | | V _R = 150 V, T _J = 125 °C | - | 0.1 | 1 | mA |

NOTES:

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



1000

100



24

20

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TYPICAL CHARACTERISTIC CURVES



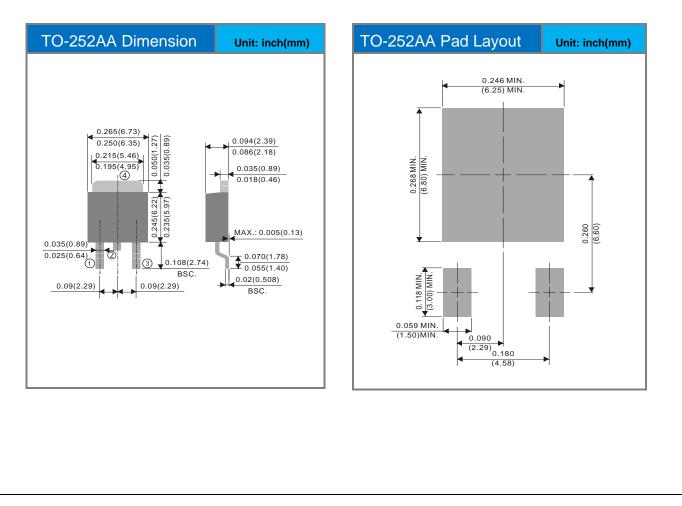


MBR20H150YD

Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|----------------------|--------------|---------------|----------|--------------|
| MBR20H150YD_L2_00001 | TO-252AA | 3K / 13" reel | 20H150YD | Halogen free |

Packaging Information & Mounting Pad Layout





MBR20H150YD

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