



MBR10150FCT

Schottky Barrier Rectifier

Voltage 150 V **Current** 10 A

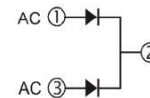
Features

- 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

- Case : ITO-220AB-1 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0765 ounces, 2.17 grams

ITO-220AB-1



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

| PARAMETER | | SYMBOL | LIMIT | UNITS |
|-----------------------------------------------------------------------------------------------|------------|--------------------|---------|-------|
| Maximum Repetitive 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 Current | Per Device | I _{F(AV)} | 10 | A |
| | Per Diode | | 5 | |
| Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load Per Diode | | I _{FSM} | 150 | A |
| Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V | | C _J | 106 | pF |
| Typical Thermal Resistance Per Diode ^(Note 1) | | R _{θJC} | 2 | °C/W |
| Operating Junction Temperature Range | | T _J | -65~175 | °C |
| Storage Temperature Range | | T _{STG} | -65~175 | °C |



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

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-------------------------------------|--------|-----------------------------------------------|------|------|------|-------|
| Forward Voltage | V_F | $I_F = 1\text{ A}, T_J = 25^\circ\text{C}$ | - | 0.65 | - | V |
| | | $I_F = 5\text{ A}, T_J = 25^\circ\text{C}$ | - | 0.79 | 0.9 | |
| | | $I_F = 1\text{ A}, T_J = 125^\circ\text{C}$ | - | 0.5 | - | |
| | | $I_F = 5\text{ A}, T_J = 125^\circ\text{C}$ | - | 0.65 | - | |
| Reverse Current ^(Note 2) | I_R | $V_R = 150\text{ V}, T_J = 25^\circ\text{C}$ | - | - | 0.05 | mA |
| | | $V_R = 150\text{ V}, T_J = 125^\circ\text{C}$ | - | - | 20 | |

NOTES:

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



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TYPICAL CHARACTERISTIC CURVES

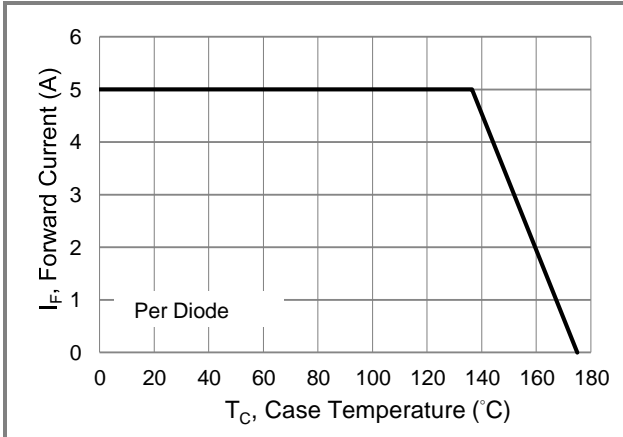


Fig.1 Forward Current Derating Curve

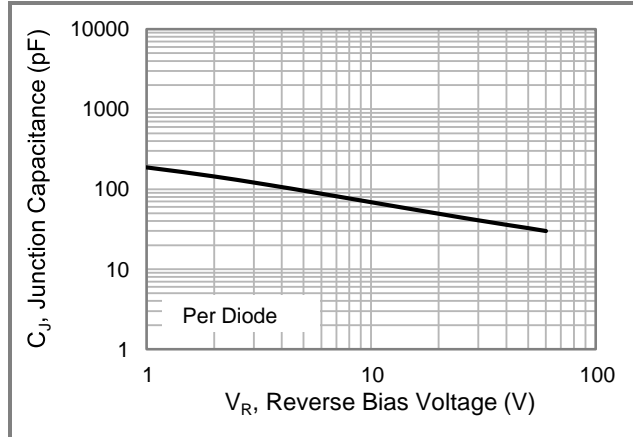


Fig.2 Typical Junction Capacitance

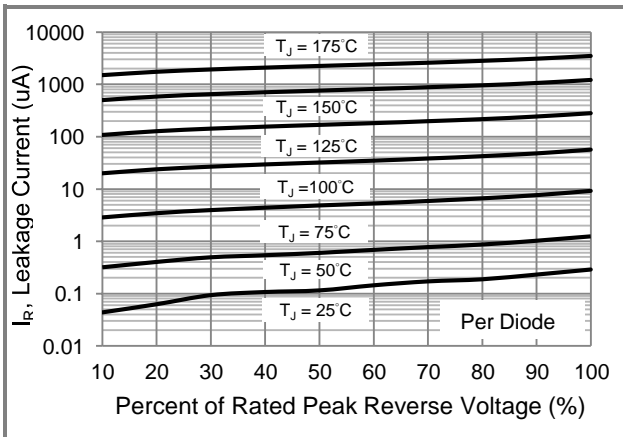


Fig.3 Typical Reverse Characteristics

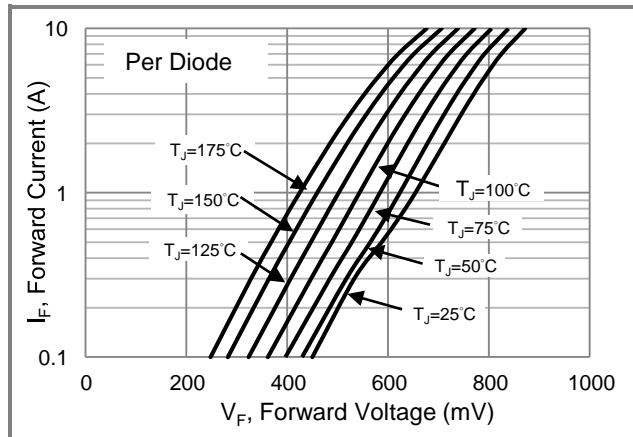


Fig.4 Typical Forward Characteristics

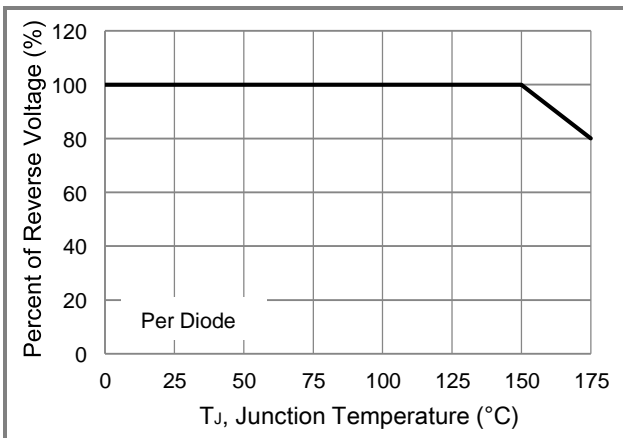


Fig.5 Operating Temperature Derating Curve

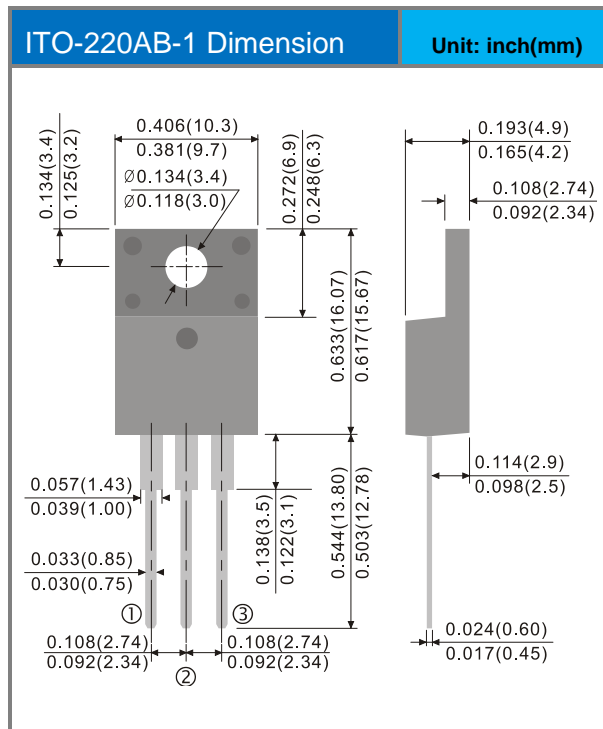


MBR10150FCT

Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | Version |
|-----------------------|--------------|--------------|-------------|--------------|
| MBR10150FCT_T0_00101 | ITO-220AB-1 | 50pcs / Tube | MBR10150FCT | Halogen free |

Packaging Information





MBR10150FCT

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