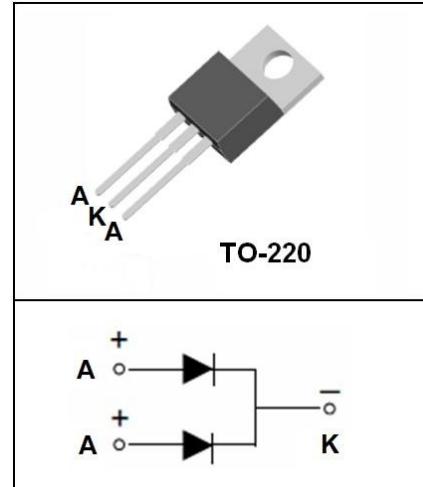


**MBR30150CT****Dual High Voltage Schottky Rectifier****●Features:**

- Common Cathode Structure
- Low Power Loss and High Efficiency
- Low Forward Voltage Drop
- High Surge Capability

●Application:

- High Frequency Switch
- Free Wheeling, and Polarity Protection Applications

**Absolute Maximum Ratings(Tc=25°C unless otherwise noted)**

| Symbol | Parameter | Value | Unit |
|--------------------|--|-------------------------------|------|
| V _{RRM} | Maximum Repetitive Reverse Voltage | 150 | V |
| V _R | Maximum DC Reverse Voltage | 150 | V |
| I _{F(AV)} | Average Rectified Forward Current, Tc=120°C | 15(Per Leg) 30(Per Device) | A |
| I _{FSM} | Peak Forward Surge Current, 8.3ms Half Sine wave | 250 | A |
| T _j | Operating Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature Range | -55 to +150 | °C |

Thermal Characteristics(Tc=25°C unless otherwise noted)

| Symbol | Parameter | Max | Unit |
|------------------|---|-----|-------|
| R _{θJC} | Thermal Resistance, Junction to Case Per Leg | 2.0 | °C /W |
| R _{θJA} | Thermal Resistance, Junction to Ambient Per Leg | 84 | °C /W |

Electrical Characteristics(Tc=25°C unless otherwise noted)

| Symbol | Parameter | Test Conditions | Min | Max | Unit |
|------------------|------------------------------------|--|-----|------------------------------|------|
| V _{RRM} | Maximum Repetitive Reverse Voltage | I _R =100μA | 150 | | V |
| I _R | Reverse Current | V _R =150V Tc=25°C V _R =150V Tc=125°C | | 0.1 5 | mA |
| V _F | Forward Voltage | I _F =15A Tc=25°C I _F =15A Tc=125°C I _F =30A Tc=25°C I _F =30A Tc=125°C | | 0.96 0.84 1.11 1.01 | V |



MBR30150CT

Dual High Voltage Schottky Rectifier

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

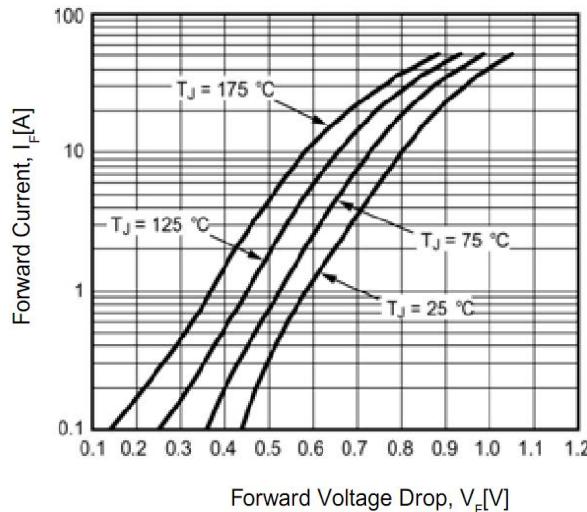


Figure 2. Reverse Leakage Current

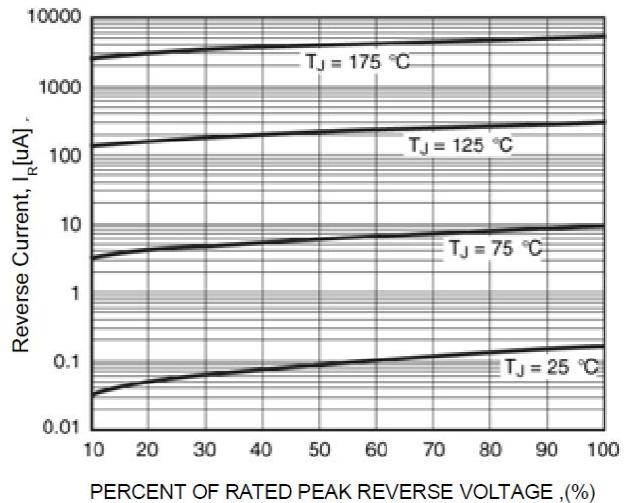


Figure 3. Junction Capacitance

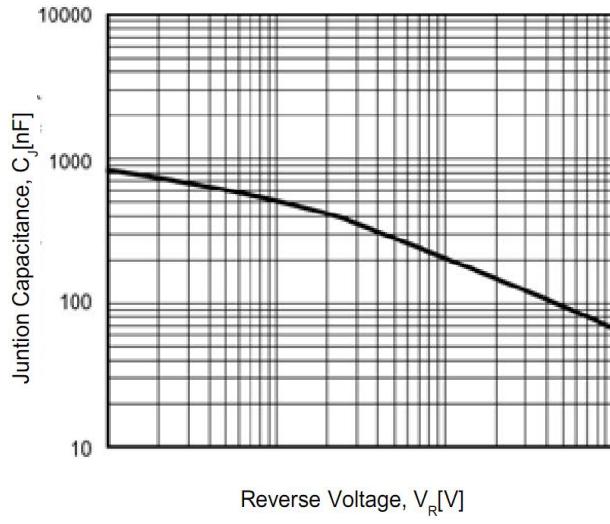
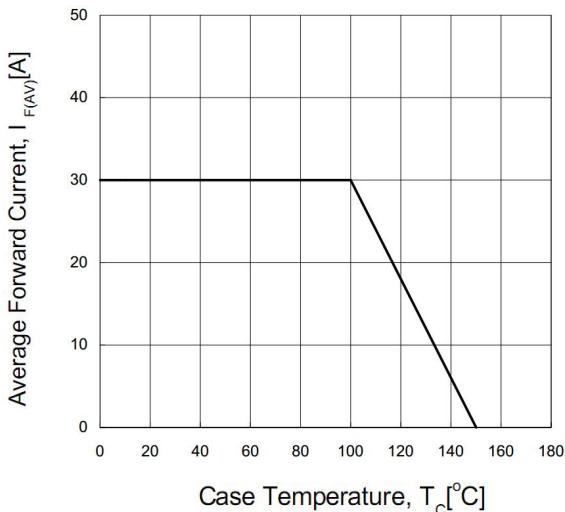


Figure 4. Power Derating





MBR30150CT

Dual High Voltage Schottky Rectifier

TO-220 MECHANICAL DATA

UNIT: mm

| SYMBOL | min | nom | max | SYMBOL | min | nom | max |
|--------|-------|-----|-------|--------|-------|------|-------|
| A | 4.00 | | 4.80 | E | 9.70 | | 10.70 |
| B | 1.15 | | 1.45 | e | | 2.54 | |
| B1 | 0.90 | | 1.40 | F | 1.10 | | 1.40 |
| b1 | 0.65 | | 0.95 | L | 12.50 | | 14.50 |
| c | 0.30 | | 0.50 | L1 | 2.90 | 3.40 | 3.90 |
| D | 14.40 | | 16.40 | Q | 2.50 | | 3.10 |
| D1 | 5.90 | | 6.90 | Q1 | 2.00 | | 3.00 |
| | | | | φP | 3.60 | | 4.00 |

