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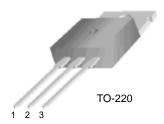
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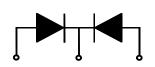
Features

- · Low forward voltage drop
- High frequency properties and switching speed
- Guard ring for over-voltage protection

Applications

- Switched mode power supply
- Freewheeling diodes





1. Anode 2.Cathode 3. Anode

SCHOTTKY BARRIER RECTIFIER

Absolute Maximum Ratings T_C=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|----------------------------------|---|-------------|-------|
| V_{RRM} | Maximum Repetitive Reverse Voltage | 60 | V |
| V _R | Maximum DC Reverse Voltage | 60 | V |
| I _{F(AV)} | Average Rectified Forward Current @ T _C = 134°C | 20 | Α |
| I _{FSM} | Non-repetitive Peak Surge Current (per diode) 60Hz Single Half-Sine Wave | 200 | A |
| T _{J,} T _{STG} | Operating Junction and Storage Temperature | -65 to +150 | °C |

Thermal Characteristics

| Symbol | | Parameter | Value | Units |
|--------|-----|--|-------|-------|
| R | θJC | Maximum Thermal Resistance, Junction to Case (per diode) | 1.7 | °C/W |

Electrical Characteristics (per diode)

| Symbol | Parameter | | Value | Units |
|-------------------|---|---|--------------|-------|
| V _{FM} * | Maximum Instantaneous Forward Voltage $I_F = 10A$ $I_F = 10A$ | T _C = 25 °C T _C = 125 °C | 0.58 0.52 | V |
| | I _F = 20A I _F = 20A | T _C = 25 °C T _C = 125 °C | 0.71 0.65 | |
| I _{RM} * | Maximum Instantaneous Reverse Current @ rated V _R | T _C = 25 °C T _C = 125 °C | 1 | mA |
| | | T _C = 125 °C | 50 | |

^{*} Pulse Test: Pulse Width=300µs, Duty Cycle=2%

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Typical Characteristics

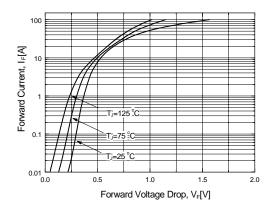


Figure 1. Typical Forward Voltage Characteristics (per diode)

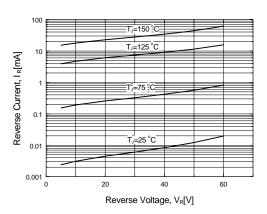


Figure 2. Typical Reverse Current vs. Reverse Voltage (per diode)

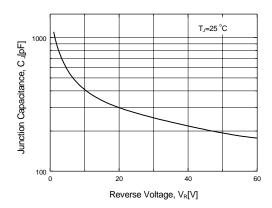


Figure 3. Typical Junction Capacitance (per diode)

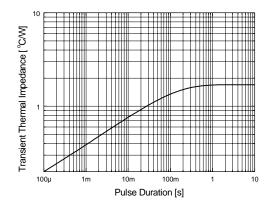


Figure 4. Thermal Impedance Characteristics (per diode)

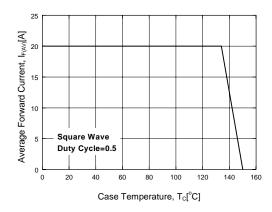


Figure 5. Forward Current Derating Curve

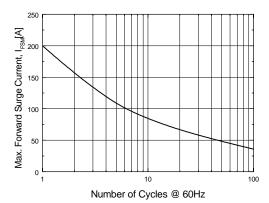
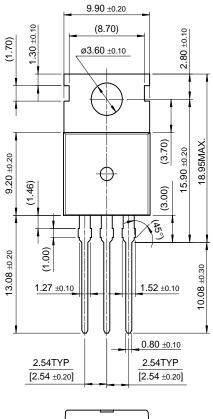


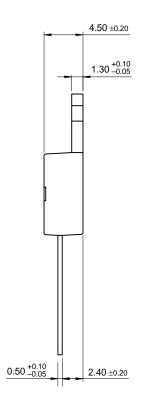
Figure 6. Non-Repetive Sureg Current (per diode)

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Package Demensions

TO-220







Dimensions in Millimeters

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|--------------------------|---------------------------|---|
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