

2.0 Amp. Schottky Barrier Rectifier

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|--|---|-------------------------|--|
|  <p>DO-204AC (DO-15)</p> | Voltage 20 V to 150 V | Current 2.0 A | |
| | FEATURES <ul style="list-style-type: none"> • Low power losses, high efficiency • High surge current capability • High frequency operation • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Halogen-free available according to IEC 61249-2-21 definition | |   RoHS COMPLIANT <small>HALOGEN FREE</small> |
| | MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-204AC (DO-15). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test | | |
| | TYPICAL APPLICATIONS Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications. | | |

Maximum Ratings and Electrical Characteristics at 25 °C

| | | SR202 | SR204 | SR206 | SR210 | SR215 |
|---------------------------|--|-----------------|----------|----------|----------|----------|
| Marking Code | | SR202 | SR204 | SR206 | SR210 | SR215 |
| Halogen Free Marking Code | | SR202 HF | SR204 HF | SR206 HF | SR210 HF | SR215 HF |
| V_{RRM} | Maximum Recurrent Peak Reverse Voltage (V) | 20 | 40 | 60 | 100 | 150 |
| V_{RMS} | Maximum RMS Voltage (V) | 14 | 28 | 42 | 70 | 105 |
| V_{DC} | Maximum DC Blocking Voltage (V) | 20 | 40 | 60 | 100 | 150 |
| $I_{F(AV)}$ | Max. Average Forward Rectifier Current (See graphic) | 2.0 A | | | | |
| I_{FSM} | 8.3 ms. Peak Forward Surge Current (Jedec Method) | 50 A | | | | |
| C_j | Typical Junction Capacitance | 120 pF | | 85 pF | 65 pF | |
| T_j | Operating Temperature Range | -55°C to +150°C | | | | |
| T_{stg} | Storage Temperature Range | -55°C to +150°C | | | | |

Electrical Characteristics at Tamb = 25 °C

| | | | | | |
|---------------|--|---------|--------|--------|--------|
| V_F | Maximum Instantaneous Forward Voltage $I_F = 2.0 A$ (Note 1) | 0.55 V | 0.70 V | 0.85 V | 0.95 V |
| I_R | Maximum D.C. Reverse Current @ $T_j = 25^\circ C$ at Rated DC Blocking Voltage @ $T_j = 125^\circ C$ (Note 3) | 0.5 mA | | 0.1 mA | |
| | | 15 mA | 10 mA | 2.0 mA | |
| $R_{th(j-a)}$ | Typical Thermal Resistance (Note 2) | 75 °C/W | | | |

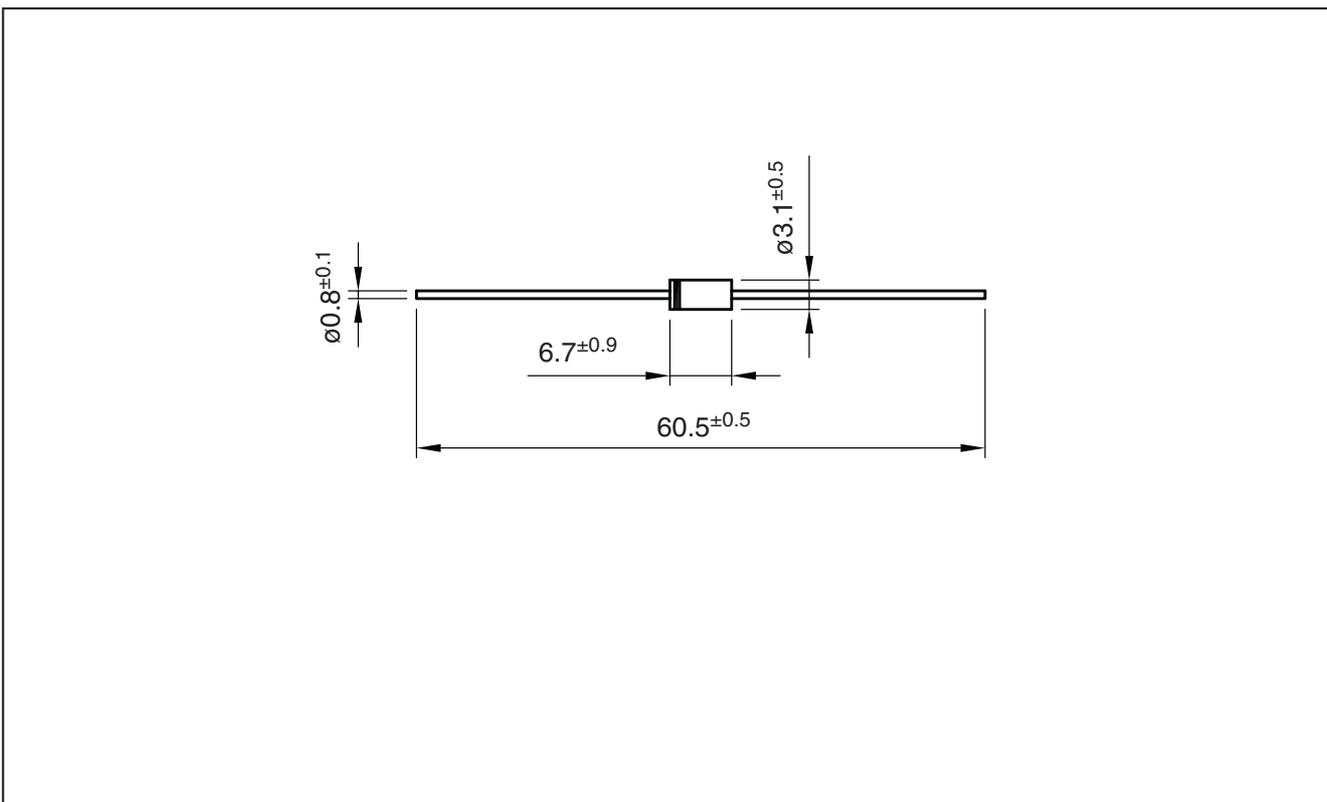
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

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Ordering information

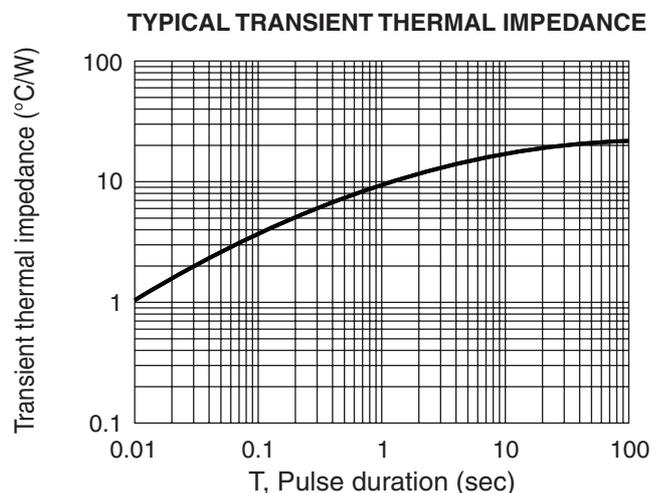
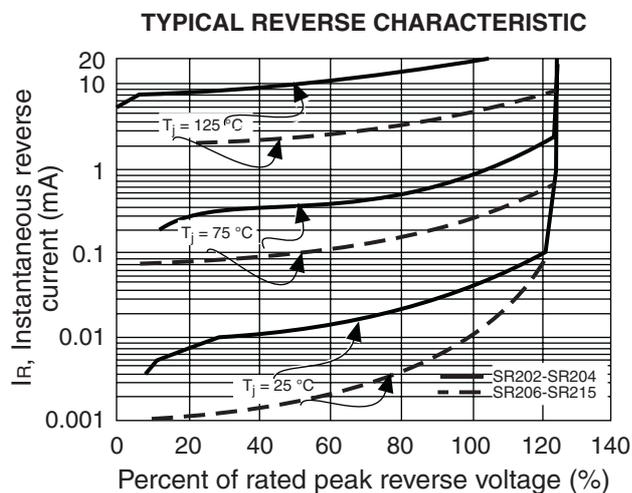
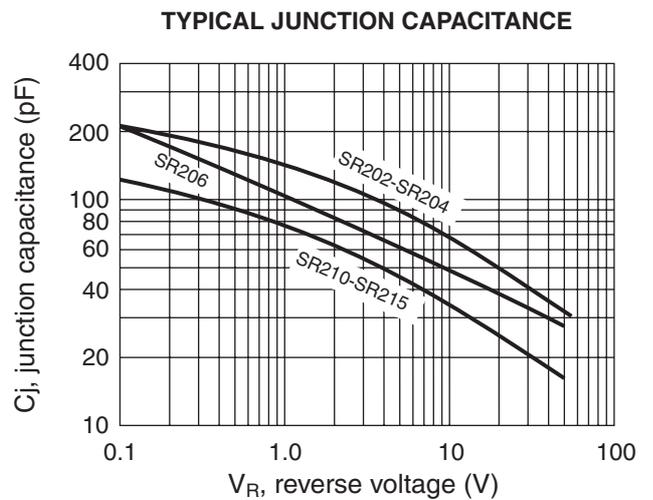
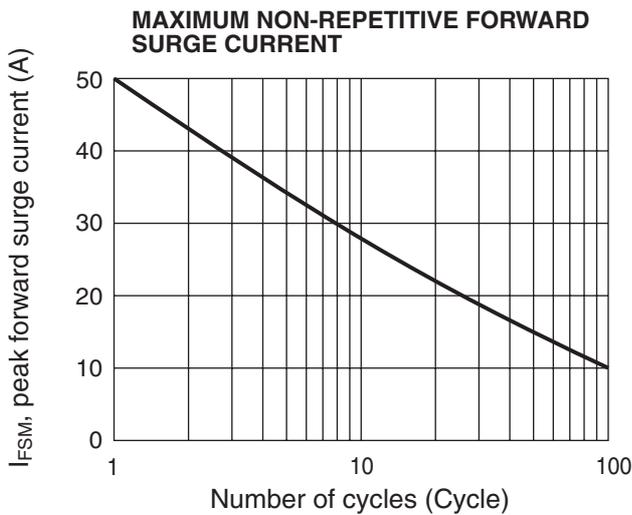
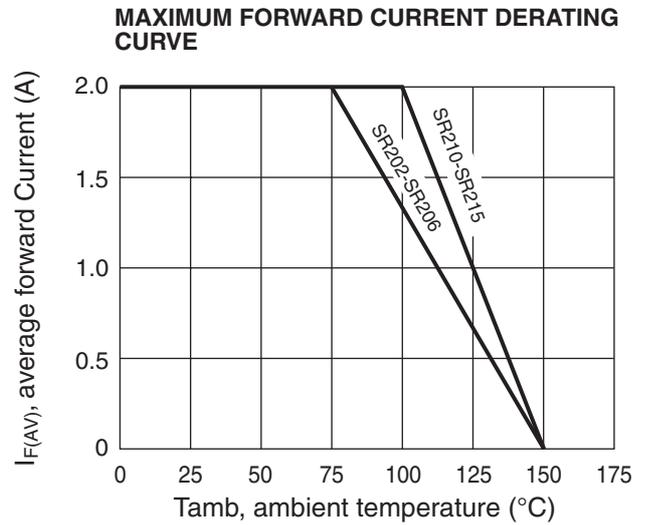
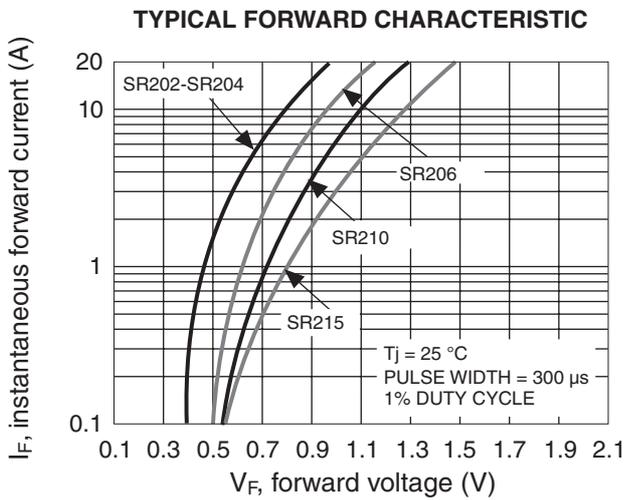
| PREFERRED P/N | PACKAGE CODE | DELIVERY MODE | BASE QUANTITY | UNIT WEIGHT (g) |
|---------------|--------------|----------------------------|---------------|-----------------|
| SR206 AMP | AMP | AMMO BOX | 1,800 | 0.378 |
| SR206 TR | TR | 13" diameter tape and reel | 4,000 | 0.378 |
| SR206 HF AMP | AMP | AMMO BOX | 1,800 | 0.378 |
| SR206 HF TR | TR | 13" diameter tape and reel | 4,000 | 0.378 |

Package Outline Dimensions: (mm) DO-204AC / DO-15



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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