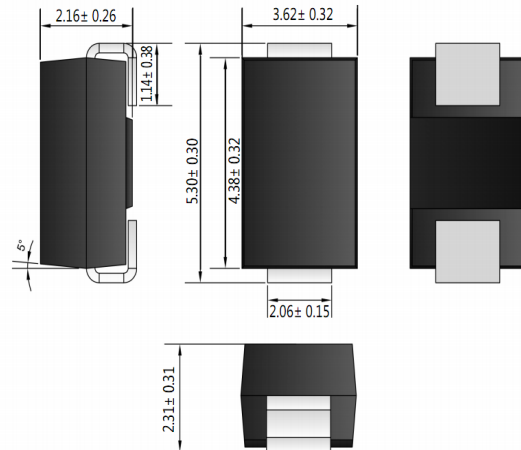


Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 100A Peak
- Low Power Loss
- Fast Switching
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

SMB /DO-214AA



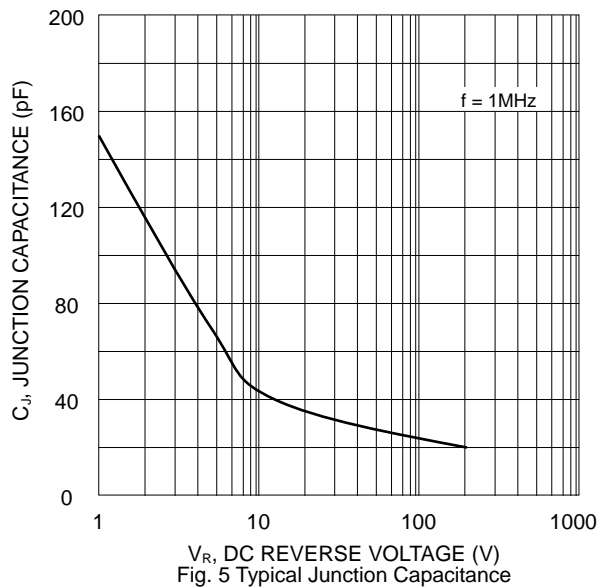
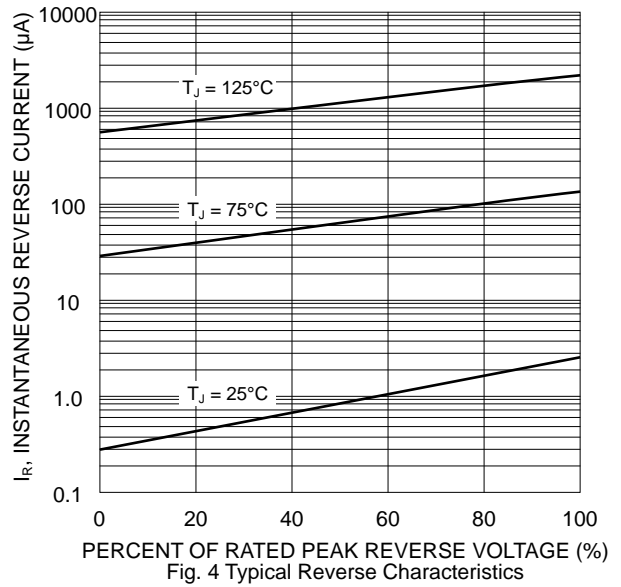
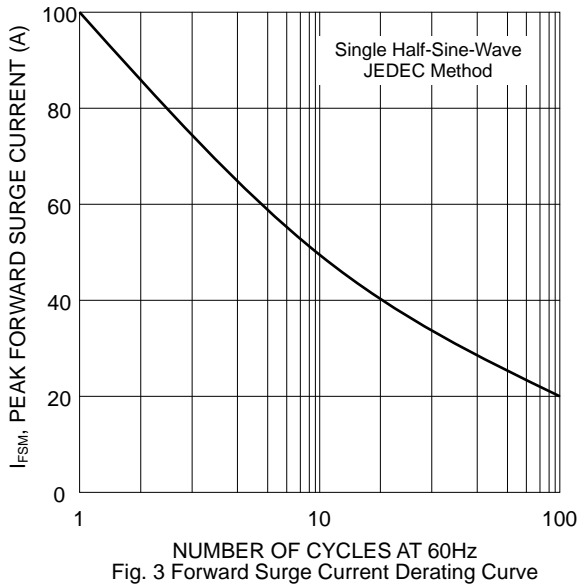
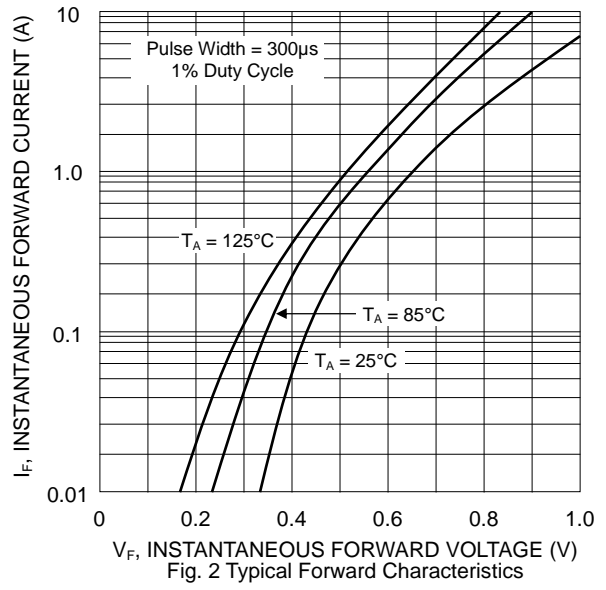
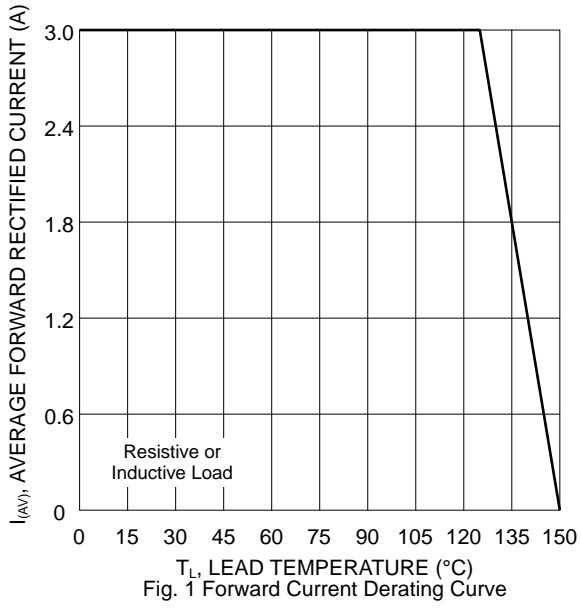
Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Device Code, See Page 3
- Weight: 0.093 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version**

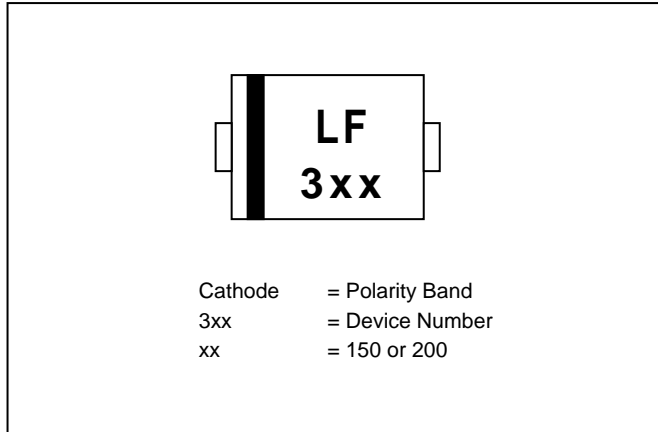
Maximum Ratings @T_A=25°C unless otherwise specified

| Characteristic | Symbol | SR3150 | SR3200 | Unit |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|--------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 150 | 200 | V |
| Working Peak Reverse Voltage | V _{RWM} | | | |
| DC Blocking Voltage | V _R | | | |
| RMS Reverse Voltage | V _{R(RMS)} | 105 | 140 | V |
| Average Rectified Output Current (Note 1) | I _O | 3.0 | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) | I _{FSM} | 100 | | A |
| Forward Voltage @ I _F = 3.0A | V _{FM} | 0.9 | | V |
| Peak Reverse Current @ T _J = 25°C | I _{RM} | 0.2 | | mA |
| At Rated DC Blocking Voltage @ T _J = 100°C | | 5.0 | | |
| Typical Junction Capacitance (Note 2) | C _J | 80 | | pF |
| Thermal Resistance, Junction to Ambient (Note 1) | R _{JA} | 75 | | °C/W |
| Thermal Resistance, Junction to Lead (Note 1) | R _{JL} | 20 | | |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | | °C |

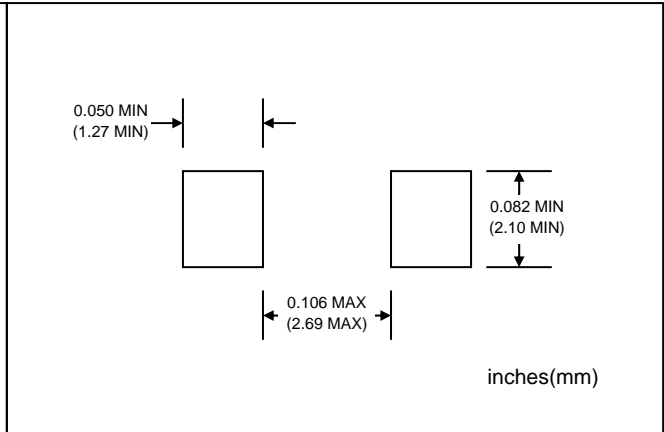
Note: 1. Mounted on FR-4 PCB with 8.0 x 8.0mm copper pads.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



MARKING INFORMATION



RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL

| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|----------------|-------------------------------|----------------|----------------------------|----------------|---------------------------|
| 330 | 3,000 | 340 x 337 x 45 | 6,000 | 370 x 370 x 420 | 48,000 | 14.0 |