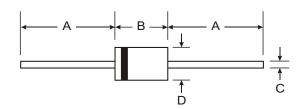


SR102 - SR106

HIGH CURRENT SCHOTTKY BARRIER RECTIFIER

Features NOT RECOMMENDED FOR NEW DESIGN, USE SB1X0 SERIES

- · High Current Capability and Low Forward Drop
- High Surge Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency



Mechanical Data

Case: DO-41, Molded Plastic

- Plastic Material: UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Axial lead, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.35 grams (approx.)

| DO-41 | | | | | | |
|----------------------|------|------|--|--|--|--|
| Dim | Min | Max | | | | |
| Α | 25.4 | _ | | | | |
| В | 4.1 | 5.2 | | | | |
| С | 0.71 | 0.86 | | | | |
| D | 2.0 | 2.7 | | | | |
| All Dimensions in mm | | | | | | |

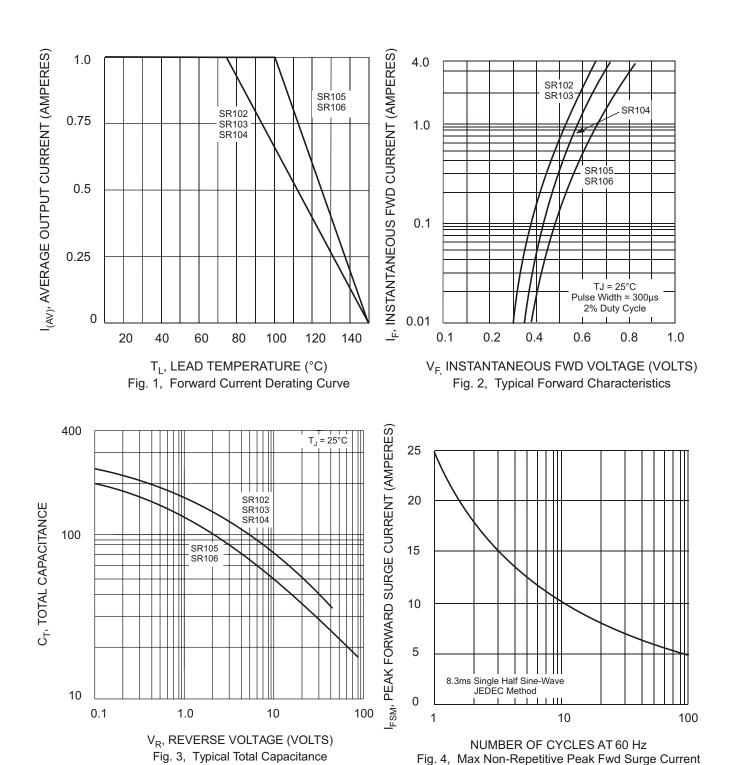
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | | SR102 | SR103 | SR104 | SR105 | SR106 | Unit |
|---|-------------------|-------------|-------|-------|-------|-------|------|
| Maximum Recurrent Peak Reverse Voltage | | 20 | 30 | 40 | 50 | 60 | V |
| Maximum RMS Voltage | V _{RSM} | 14 | 21 | 28 | 35 | 42 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | V |
| | | 1.0 | | 1.0 | | А | |
| Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method) | | 25 | | | | А | |
| Maximum Forward Voltage @ 1.0 |)A V _F | 0.55 0.60 | | 0.60 | 0.70 | | V |
| | | 1.0 10 | | | | mA | |
| Typical Thermal Resistance (Note 1) | | 15 | | | | K/W | |
| Typical Total Capacitance (Note 2) | | 110 80 | | | 30 | pF | |
| Storage and Operating Temperature Range | | -65 to +150 | | | | | °C |

Notes: 1. Thermal Resistance from Junction to Ambient with Vertical PC Board Mounting, 1.27mm Lead Length.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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