SR320 THRU SR3200

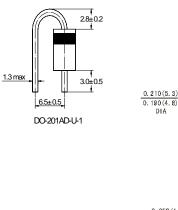
SCHOTTKY BARRIER RECTIFIERS Reverse Voltage - 20 to 200 V Forward Current - 3 A

Features

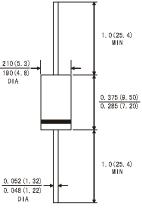
- Plastic package has UL flammability classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability

Mechanical Data

- Case: Molded plastic body, DO-201AD
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any







Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Parameter | | SR320 | SR330 | SR340 | SR350 | SR360 | SR380 | SR3100 | SR3150 | SR3200 | Units |
|------------------------------------------------------------------------------------------------------|--------------------|---------------------|-----------------------------|-------|-------|-------|-------|--------|--------|--------|-------|
| Maximum Repetitive Peak Reverse Voltage | | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length | | 3 | | | | | | | | | А |
| Peak Forward Surge Current, 8.3 ms Single Ha Sine-Wave Superimposed on Rated Load (JED method) | | I _{FSM} 80 | | | | | | A | | | |
| Maximum Forward Voltage at 3 A DC | | 0.55 | | 0 | .7 | 0.85 | | 0.9 | 0.95 | V | |
| Maximum Reverse Current at Rated T _A = 25 | °C I _R | 0.5 | | | | | | | | | mA |
| DC Blocking Voltage $T_A = 100$ | ^א י ⊃°C | 20 | | | 10 | | | | | | |
| Typical Junction Capacitance ¹⁾ | | | 250 160 | | | | | | | pF | |
| Typical Thermal Resistance 2) | | | 40 | | | | | | | | |
| Operating Junction Temperature Range | | - 5 | - 55 to + 125 - 55 to + 150 | | | | | | | °C | |
| Storage Temperature Range | T _{stg} | | - 55 to + 150 | | | | | | | | |

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

²⁾ Thermal resistance from junction to lead vertical P.C.B mounted, 0.5" (12.7 mm) lead length.

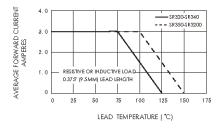




listed on the Hong Kong Stock Exchange, Stock Code: 724)









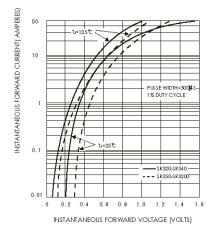
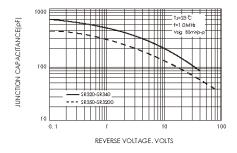


FIG.5-TYPICAL JUNCTION CAPACITANCE





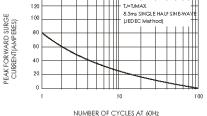
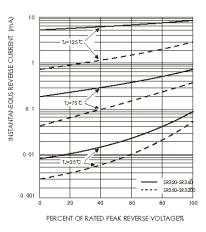
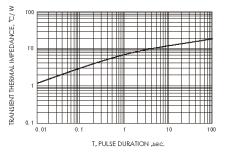


FIG.4-TYPICAL REVERSE CHARACTERISTICS









SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

Dated : 08/01/2009 J