



SR320 THRU SR3200

SCHOTTKY BARRIER RECTIFIERS

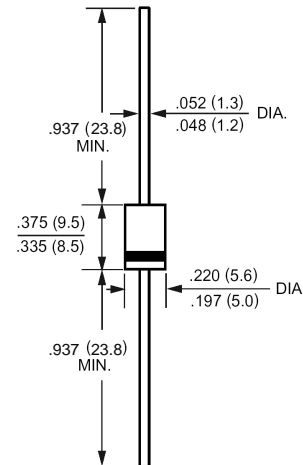
FEATURES

- High current capability
- High surge current capability
- Low forward voltage drop
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications

MECHANICAL DATA

Case: Molded plastic, DO-201AD
 Epoxy: UL 94V-O rate flame retardant
 Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
 Polarity: Color band denotes cathode end
 Mounting position: Any
 Weight: 0.04ounce, 1.1gram

DO-201AD(DO-27)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

| | Symbols | SR320 | SR340 | SR350 | SR360 | SR380 | SR3100 | SR3150 | SR3200 | Units |
|---|-----------------|-------------|-------|-------|-------------|-------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum RMS Voltage | V_{RMS} | 14 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length | $I_{(AV)}$ | 3.0 | | | | | | | | Amp |
| Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 80 | | | | | | | | Amp |
| Maximum Forward Voltage at 3.0A DC and 25 °C | V_F | 0.55 | 0.70 | 0.85 | 0.95 | | | | | Volts |
| Maximum Reverse Current at $T_A=25$ °C at Rated DC Blocking Voltage $T_A=100$ °C | I_R | 0.5 | | | | | | | | mAmp |
| Typical Junction Capacitance (Note 1) | C_J | 300 | 250 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | $R_{\theta JA}$ | 40 | | | | | | | | /W |
| Operating Junction Temperature Range | T_J | -55 to +125 | | | -55 to +150 | | | | | |
| Storage Temperature Range | T_{stg} | -55 to +150 | | | | | | | | |

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted





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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

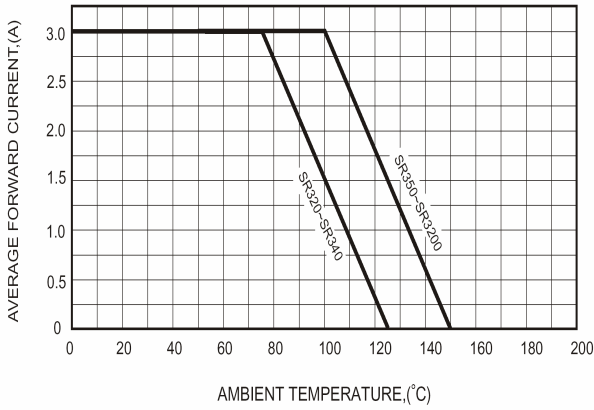


FIG.2-TYPICAL FORWARD CHARACTERISTICS

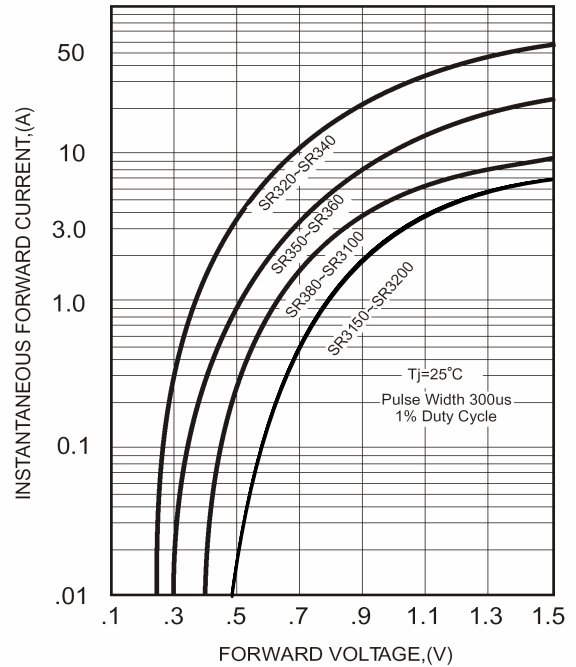


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

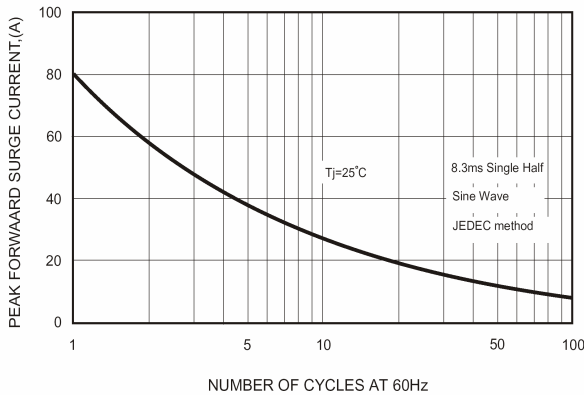


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

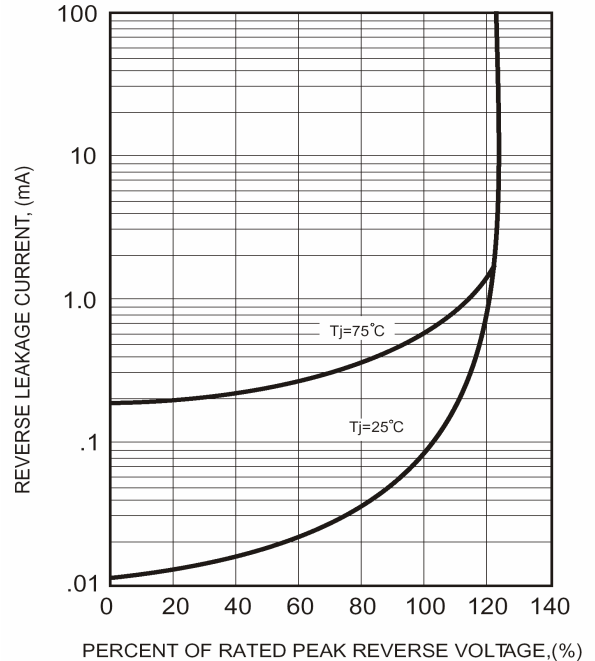


FIG.4-TYPICAL JUNCTION CAPACITANCE

