

SR220 - SR2100

PRV : 20 - 100 Volts
I_o : 2.0 Amperes

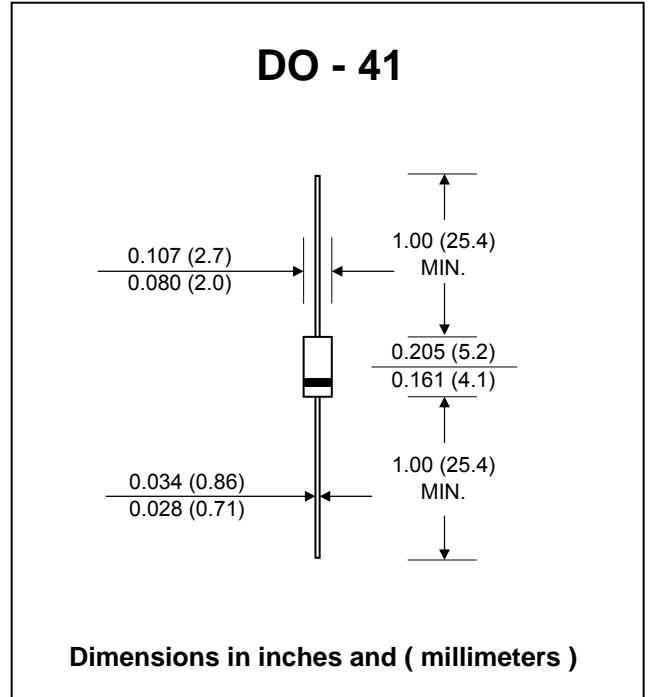
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.335 gram

SCHOTTKY BARRIER RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

| RATING | SYMBOL | SR220 | SR230 | SR240 | SR250 | SR260 | SR290 | SR2100 | UNIT |
|--|--------------------|---------------|-------|-------|---------------|-------|-------|--------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 90 | 100 | V |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 63 | 70 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 90 | 100 | V |
| Maximum Average Forward Current | I _{F(AV)} | 2.0 | | | | | | | |
| Maximum Peak Forward Surge Current, (1 cycle 8.3 ms) | I _{FSM} | 50 | | | | | | | A |
| Maximum Forward Voltage at I _F = 2.0 A | V _F | 0.55 | | 0.70 | | 0.85 | | V | |
| Maximum Reverse Current at Ta = 25 °C | I _R | 2 | | | | | | | mA |
| Rated DC Blocking Voltage Ta = 100 °C | I _{R(H)} | 20 | | | | | | | |
| Typical Junction Capacitance (V _R = 4 V, f = 1 MHz) | C _J | 170 | | | | | | | pF |
| Typical Thermal Resistance, Junction to Ambient | R _{θJA} | 20 | | | | | | | °C/W |
| Junction Temperature Range | T _J | - 55 to + 125 | | | - 55 to + 150 | | | | °C |
| Storage Temperature Range | T _{STG} | - 55 to + 150 | | | | | | | °C |

RATING AND CHARACTERISTIC CURVES (SR220 - SR2100)

FIG.1 - FORWARD CURRENT DERATING CURVE

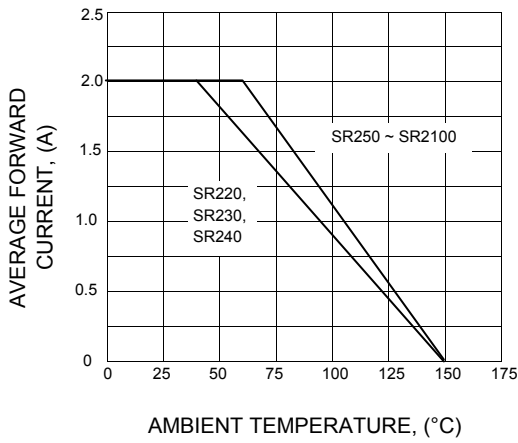


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

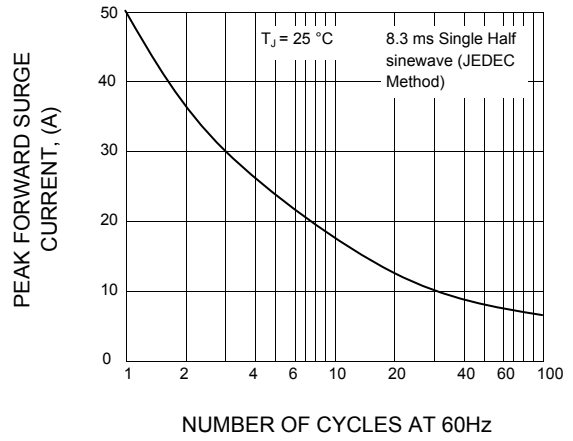


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

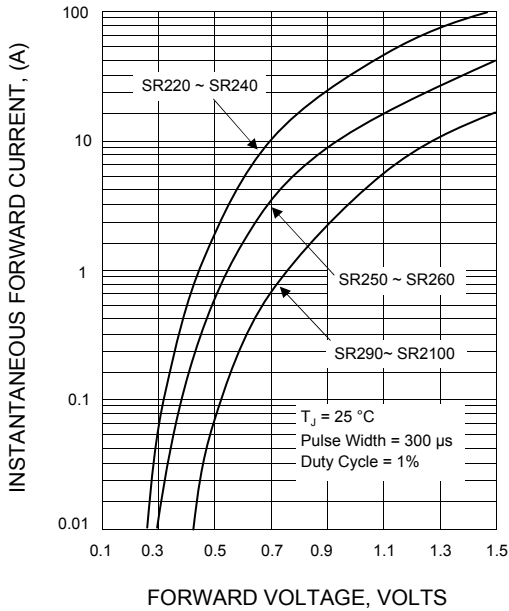


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

