

1SR35-100 ~ 1SR35-400

PRV : 100 - 400 Volts

Io : 1.0 Ampere

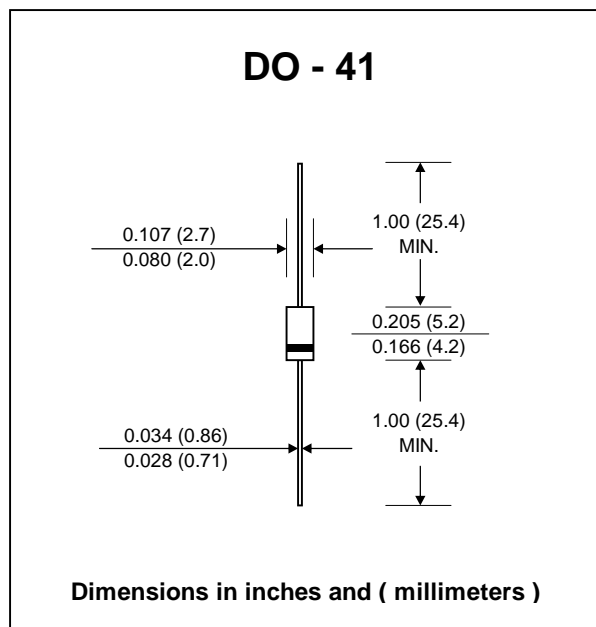
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * 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 : 0.339 gram

SILICON 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 | 1SR35-100 | 1SR34-200 | 1SR34-400 | UNIT |
|--|-------------|---------------|-----------|-----------|------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | V |
| Maximum RMS Voltage | V_{RMS} | 70 | 140 | 280 | V |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 400 | V |
| Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 50\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | | A |
| Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | A |
| Maximum Forward Voltage at $I_F = 1.0\text{ A}$ | V_F | 1.1 | | | V |
| Maximum DC Reverse Current at $V_R = V_{RRM}$ | I_{RM} | 10 | | | μA |
| Junction Temperature Range | T_J | - 65 to + 175 | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | - 65 to + 175 | | | $^\circ\text{C}$ |

RATING AND CHARACTERISTIC CURVES (1SR35-100 ~ 1SR35-400)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

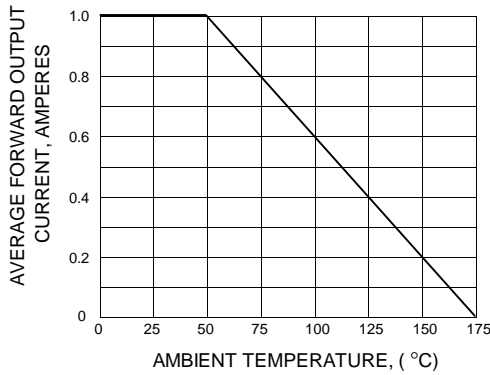


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

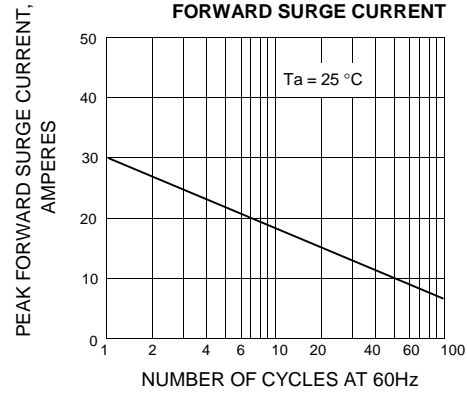


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

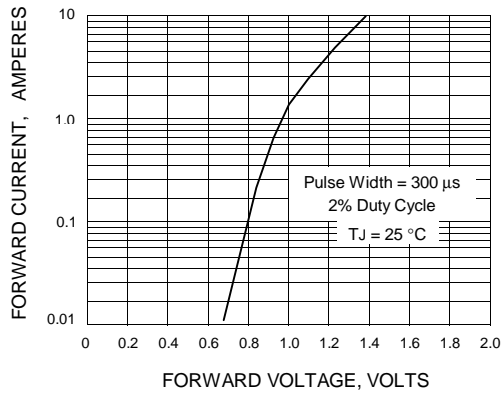


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

