

1SR35-100 ~ 1SR35-400

PRV : 100 - 400 Volts

Io : 1.0 Ampere

FEATURES :

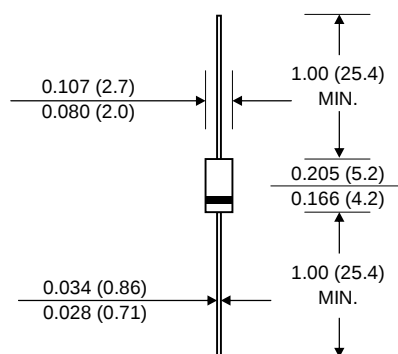
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

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

DO - 41



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

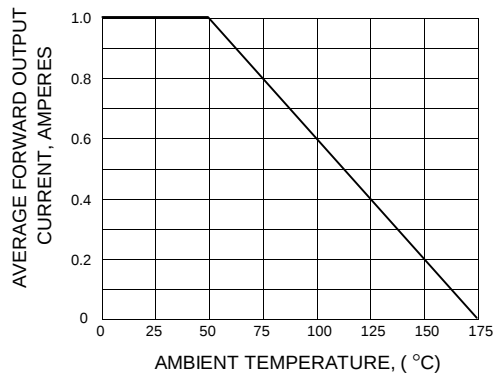


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

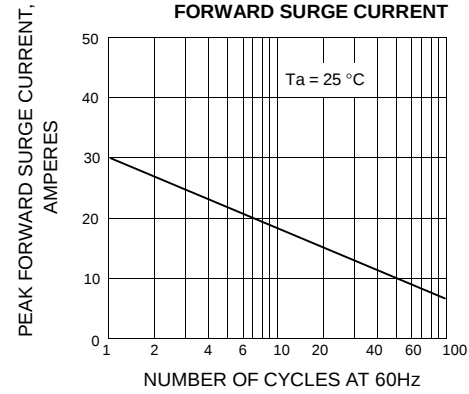


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

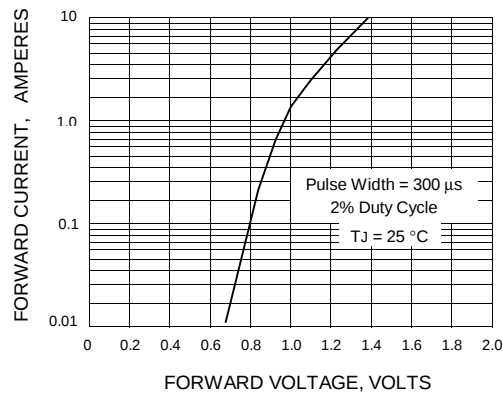


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

