

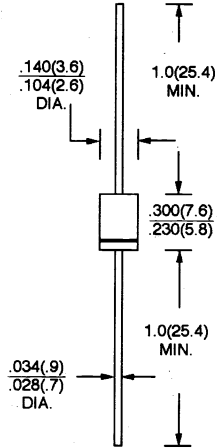


RL201 THRU RL207

2.0 AMPS. SILICON RECTIFIERS

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
2.0 Amperes

DO-15



Dimensions in inches and (millimeters)

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 0.40 grams

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%

TYPE NUMBER	SYMBOLS	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length @ $T_A = 75^\circ C$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	60							A
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.0							V
Maximum D. C Reverse Current @ $T_A = 25^\circ C$ at Rated D. C Blocking Voltage @ $T_A = 100^\circ C$	I_R	5.0 50.0							μA μA
Typical Junction Capacitance (Note 1)	C_J	35							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50							$^\circ C/W$
Operating Temperature Range	T_J	-65 to +125							$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150							$^\circ C$

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0V D. C.
2. Thermal Resistance from Junction to Ambient 0.375"(9.5mm) Lead Length.

RATINGS AND CHARACTERISTIC CURVES (RL201 THRU RL207)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

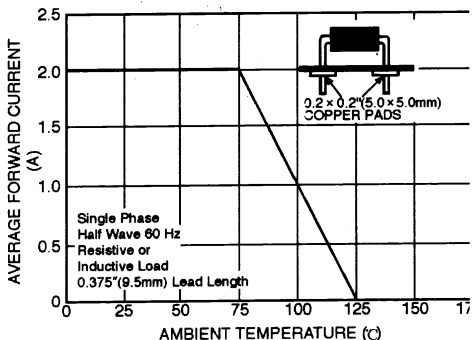


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

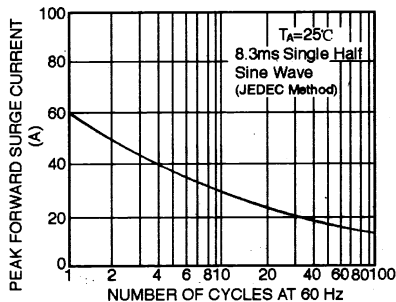


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

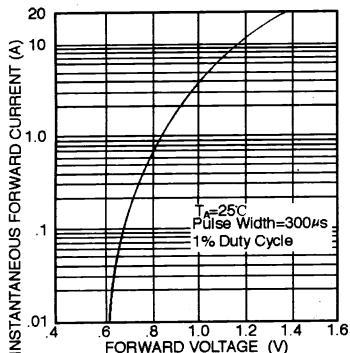


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

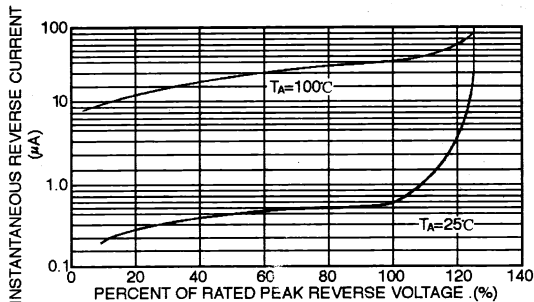


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

