



RL201 - RL207

SILICON RECTIFIER

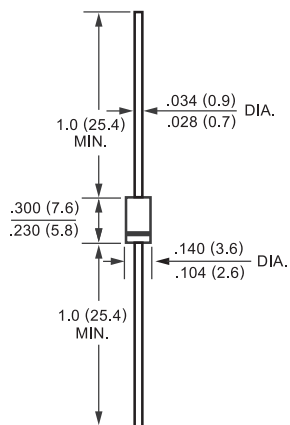
VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.38 gram

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability



Dimensions in inches and (millimeters)

DO-15



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacity load, derate current by 20%

PARAMETER		SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 75°C		I _O	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method)		I _{FSM}	70							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25°C	@T _A = 25°C	I _R	5.0							uAmps
	@T _A = 100°C		500							
Maximum Full Load Reverse Current Full Cycle Average, .375" (9.5mm) lead length at T _L = 75°C				30						
Typical Junction Capacitance (Note)		C _J	20							pF
Typical Thermal Resistance		R θ _{JA}	40							°C/W
Operating and Storage Temperature Range		T _J ,T _{STG}	-65 to +175							°C

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts



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RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

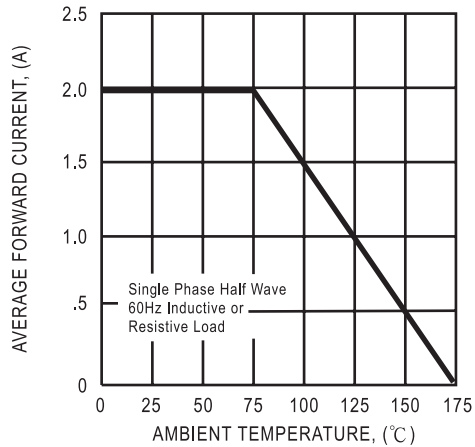


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

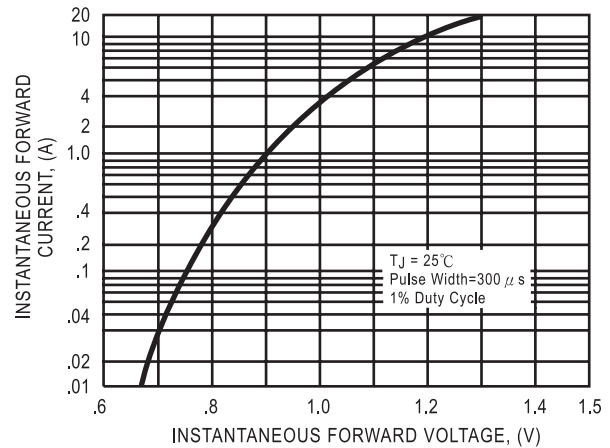


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

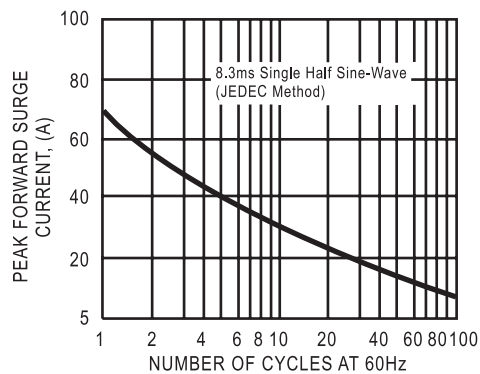


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

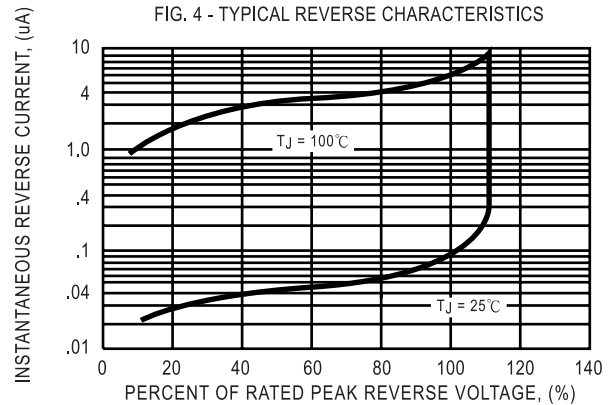


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

