

A suffix of "-C" indicates halogen-free & RoHS Compliant



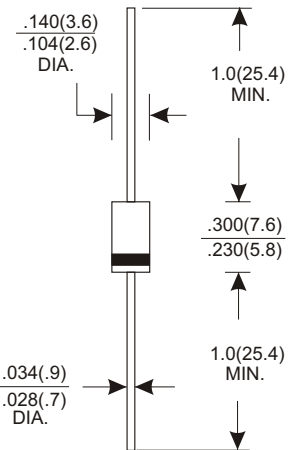
DO-15

FEATURES

- * Low Forward Voltage Drop
- * High Current Capability
- * High Reliability
- * High Surge Current Capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL94V-0 rate flame retardant
- * Lead: Axial Lead, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Colorband denotes cathode end
- * Mounting position: Any
- * Weight: 0.40 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C								2.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								70	A
Maximum Instantaneous Forward Voltage at 2.0A								1.0	V
Maximum DC Reverse Current Ta=25°C								5.0	µA
at Rated DC Blocking Voltage Ta=100°C								50	µA
Typical Junction Capacitance (Note 1)								20	pF
Typical Thermal Resistance RθJA (Note 2)								40	°C/W
Operating and Storage Temperature Range Tj, Tstg								-65 ~ +175	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

RATING AND CHARACTERISTIC CURVES (RL201 THRU RL207)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

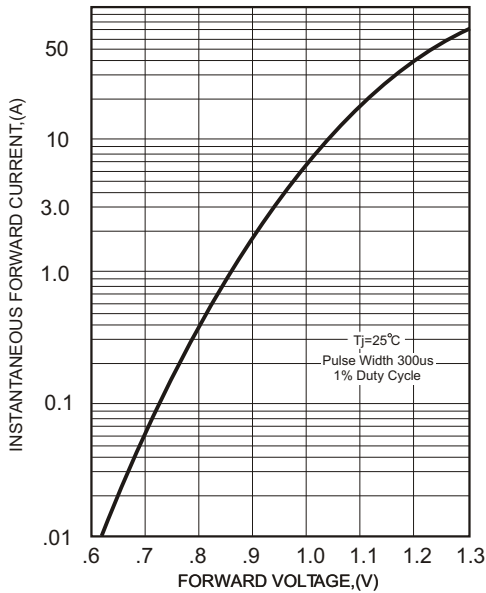


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

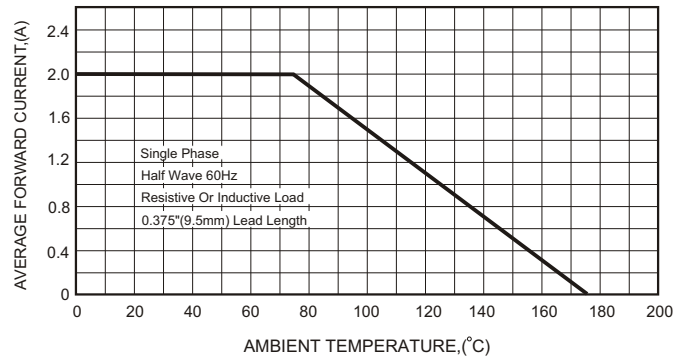


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

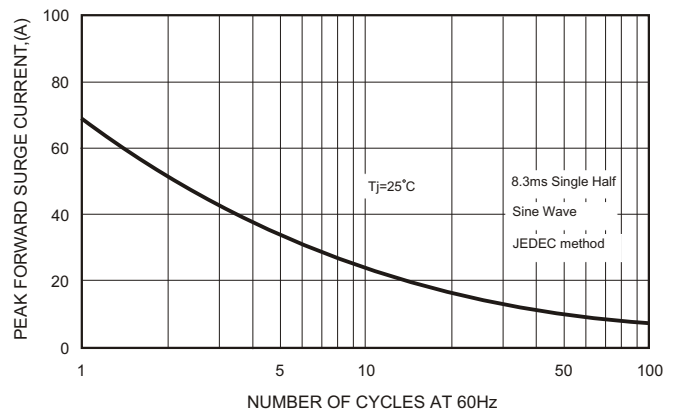


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

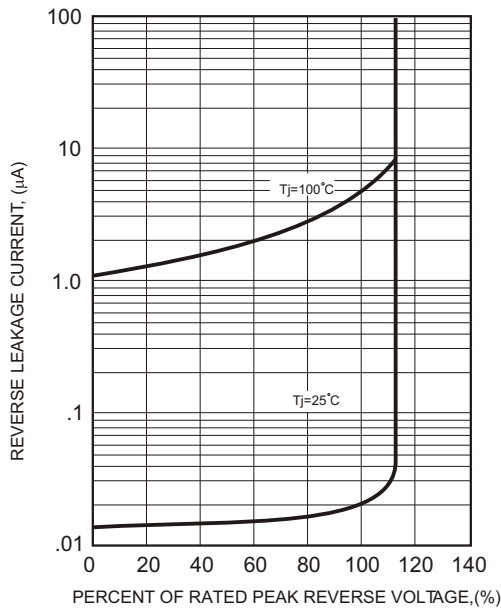


FIG.5-TYPICAL JUNCTION CAPACITANCE

