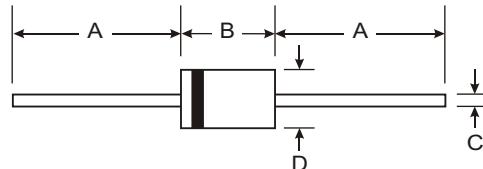


Features

- Low Reverse Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material - U/L Flammability
- Classification 94V-0

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Mechanical Data

- Case: DO-15, Molded Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Polarity: Color Band Denotes Cathode
- Approx Weight: 0.4 grams
- Mounting Position: Any

DO-15		
Dim	Min	Max
A	25.4	—
B	5.8	7.6
C	0.71	0.86
D	2.6	3.6

All Dimensions in mm

Maximum Ratings and Electrical Characteristics

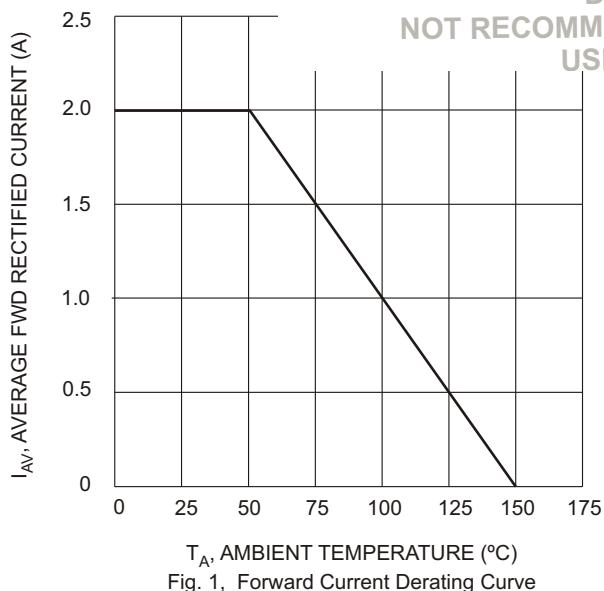
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

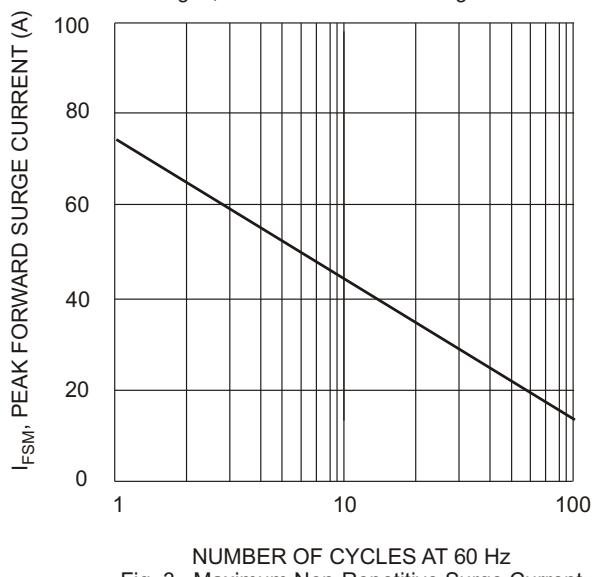
Characteristic	Symbol	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A=50$ C	$I_{(AV)}$	2.0						A	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70						A	
Maximum Instantaneous Forward Voltage at 2.0A DC	V_F	1.0						V	
Maximum DC Reverse Current @ $T_A = 25$ C at Rated DC Blocking Voltage @ $T_A = 125$ C	I_R	5.0 50						A	
Maximum Full Load Reverse Current Full Cycle Average 9.5 mm lead length @ $T_L = 75$ C	I_R	30						A	
Typical Junction Capacitance (Note 1)	C_J	40						pF	
Typical Thermal Resistance	R_{JC}	40						C/W	
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to 150						C	

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

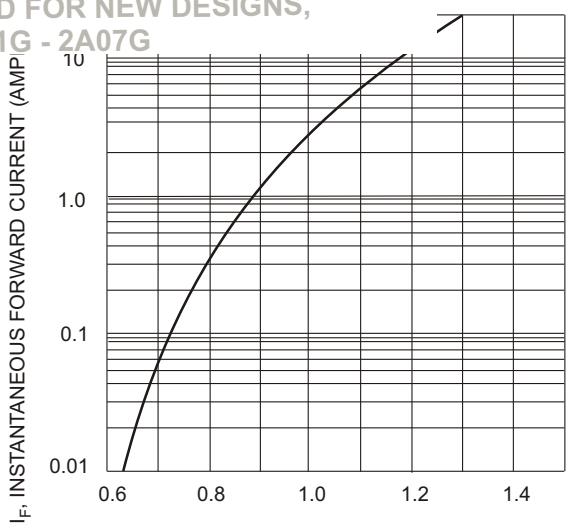
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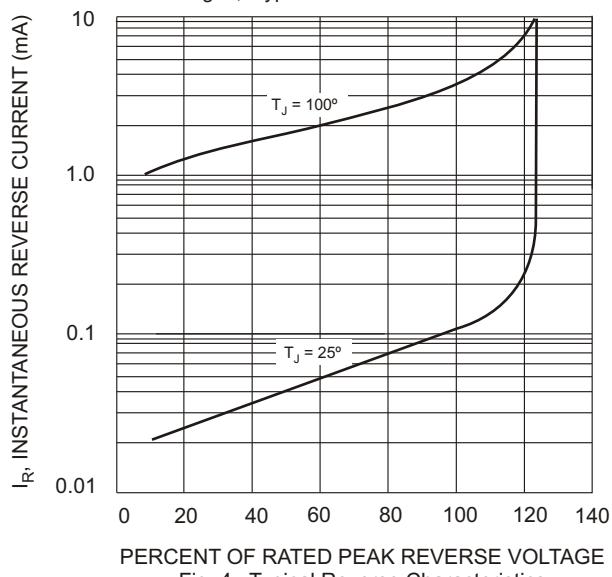
T_A, AMBIENT TEMPERATURE (°C)
Fig. 1, Forward Current Derating Curve



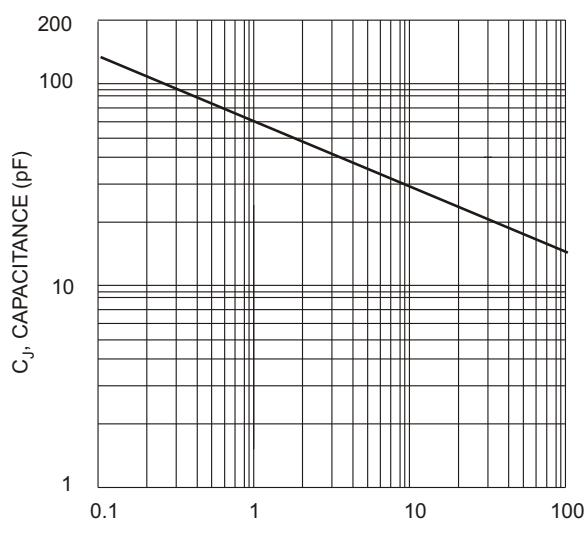
NUMBER OF CYCLES AT 60 Hz
Fig. 3, Maximum Non-Repetitive Surge Current



I_F, INSTANTANEOUS FORWARD CURRENT (AMPS)
V_F, INSTANTANEOUS FWD VOLTAGE (VOLTS)
Fig. 2, Typical Forward Characteristics



I_R, INSTANTANEOUS REVERSE CURRENT (mA)
T_J = 100°C
T_J = 25°C
PERCENT OF RATED PEAK REVERSE VOLTAGE
Fig. 4, Typical Reverse Characteristics



V_R, REVERSE VOLTAGE (VOLTS)
Fig. 5, Typical Junction Capacitance

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