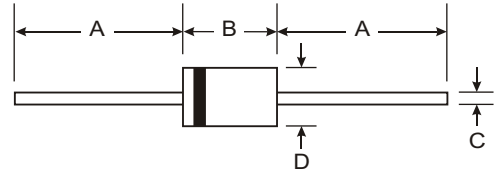


### Features

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

DISCONTINUED,  
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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		

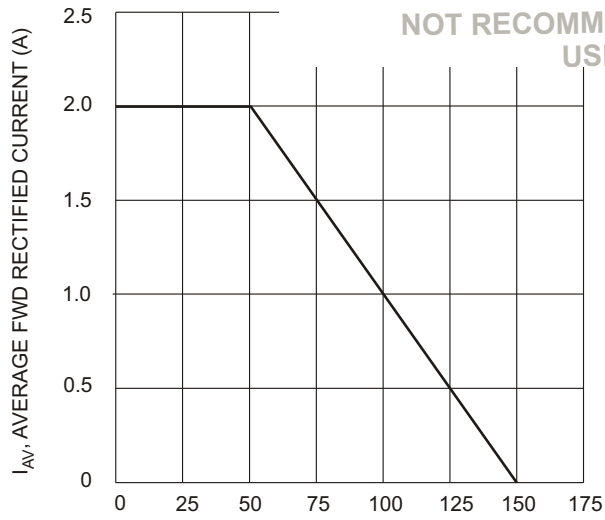
### Maximum Ratings and Electrical Characteristics

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

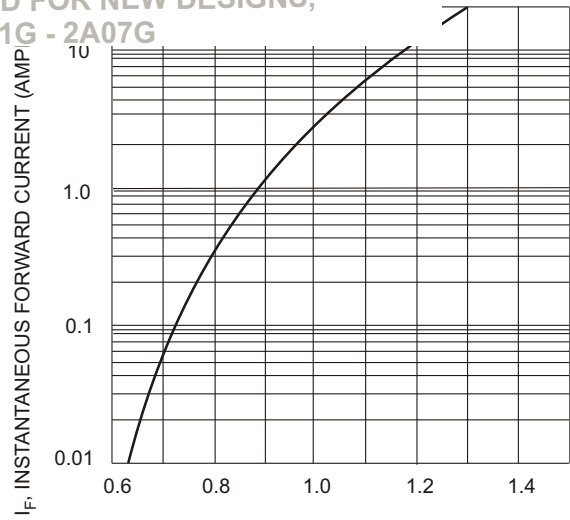
Characteristic	Symbol	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A=50^\circ\text{C}$	$I_{(AV)}$	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 @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	$I_R$	5.0 50							A
Maximum Full Load Reverse Current Full Cycle Average 9.5 mm lead length @ $T_L = 75^\circ\text{C}$	$I_R$	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.

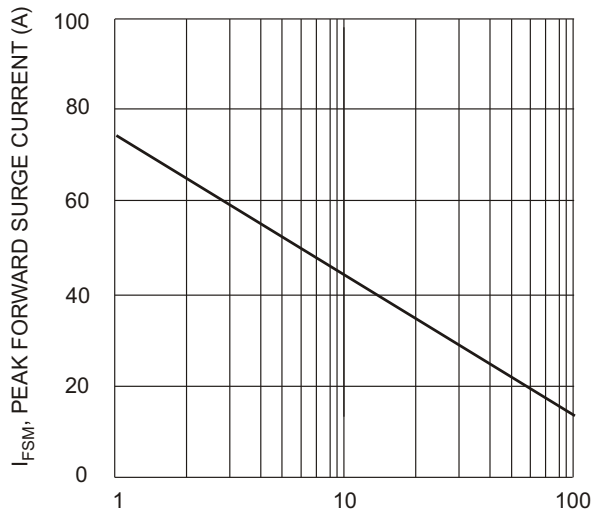
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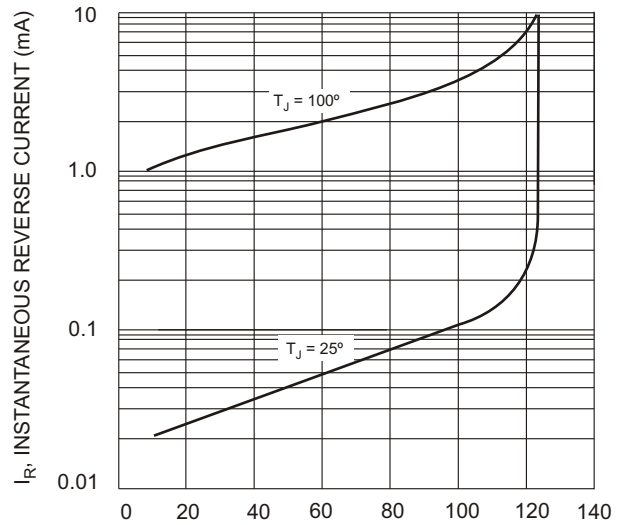
$T_A$ , AMBIENT TEMPERATURE (°C)  
Fig. 1, Forward Current Derating Curve



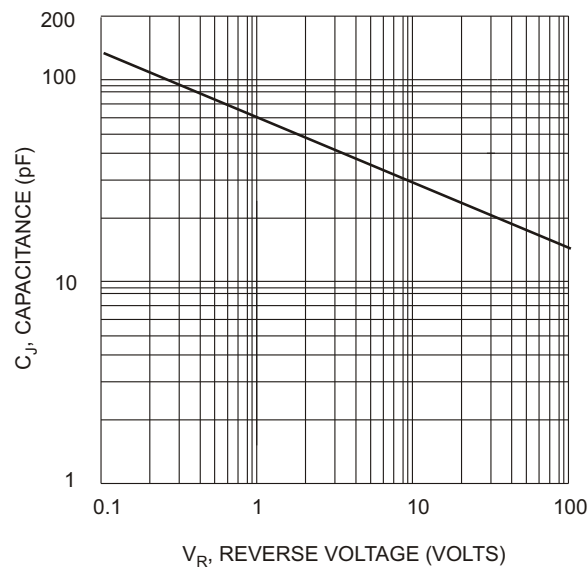
$V_F$ , INSTANTANEOUS FWD VOLTAGE (VOLTS)  
Fig. 2, Typical Forward Characteristics



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



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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