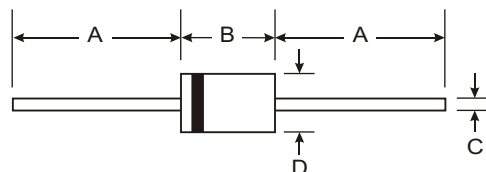


Features

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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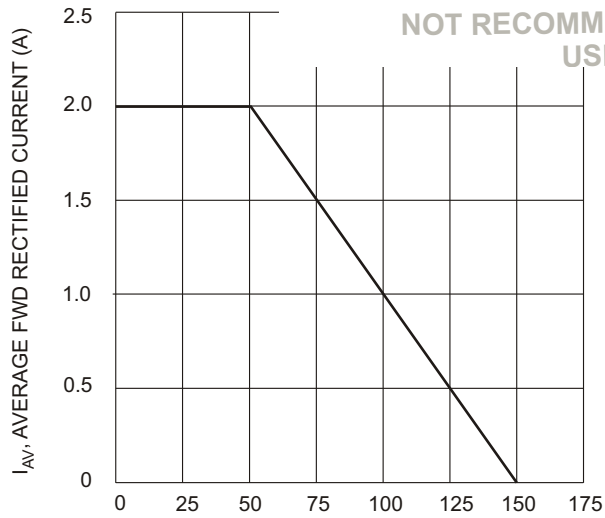


Fig. 1, Forward Current Derating Curve

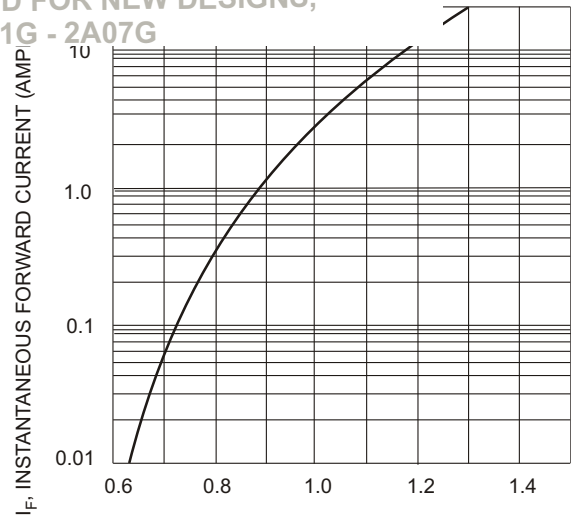


Fig. 2, Typical Forward Characteristics

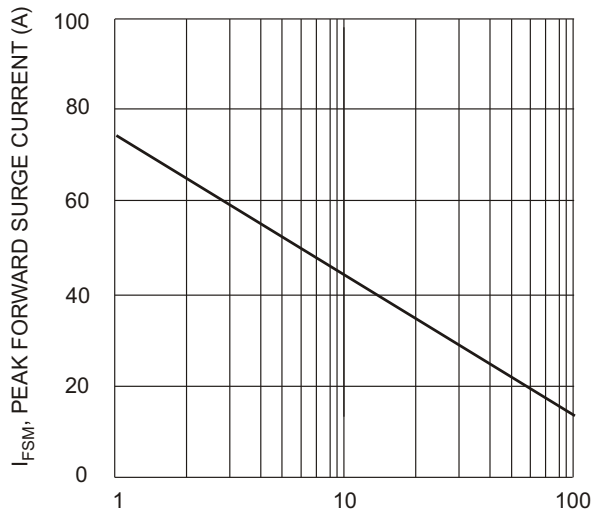


Fig. 3, Maximum Non-Repetitive Surge Current

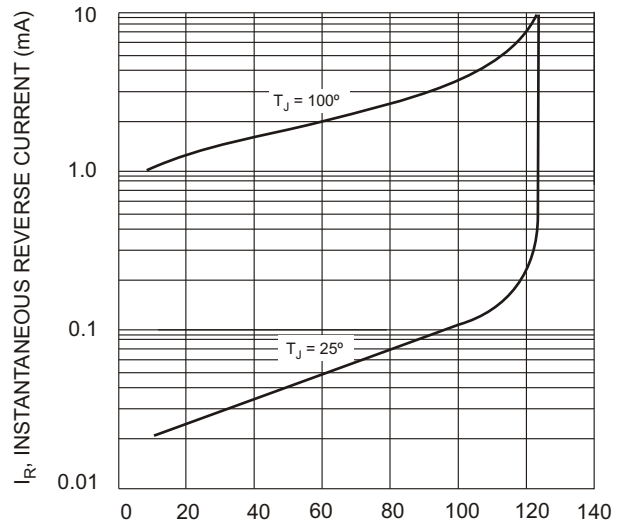


Fig. 4, Typical Reverse Characteristics

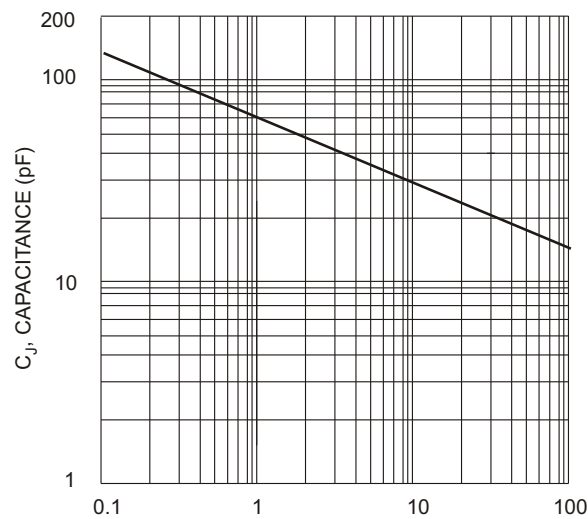


Fig. 5, Typical Junction Capacitance

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