

FEATURES

- | Low Cost

- | Low Leakage

- | Low Forward Voltage Drop

- | High Current Capability



DO-15

MECHANICAL DATA

- | Case: Molded Plastic

- | Epoxy: UL 94V-0 Rate Flame Retardant

- | Polarity: Color Band Denotes Cathode End

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Unit
Marking		RL201	RL202	RL203	RL204	RL205	RL206	RL207	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	
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	
Maximum Average Forward Rectified Current at T _A = 75°C	I _{F(AV)}	2.0							
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	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	5.0							μA
	T _A =100°C	500							
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T _L =75°C		30							
Typical Junction Capacitance (Note)	C _J	20							pF
Typical Thermal Resistance	R _{θJA}	40							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65~+175							°C

NOTES : Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts

CHARACTERISTIC CURVES

Fig.1 Typical Forward Current Derating Curve

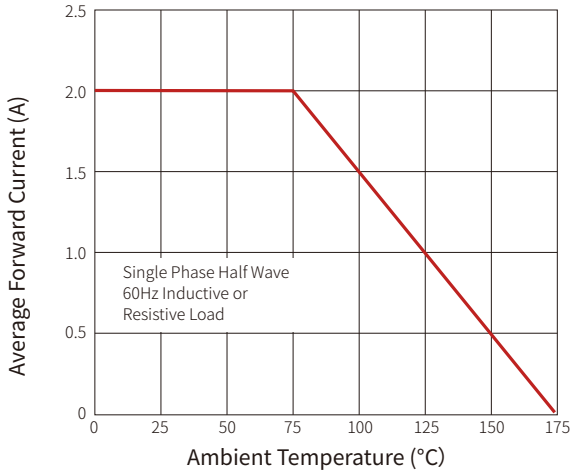


Fig.2 Typical Instantaneous Forward Characteristics

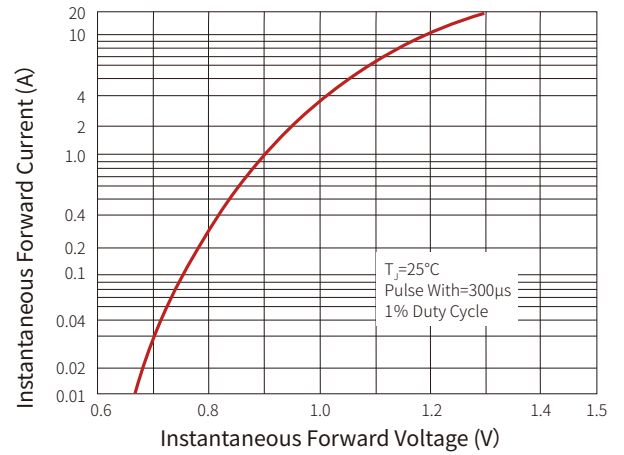


Fig.3 Maximum Non-Repetitive Forward Surge Current

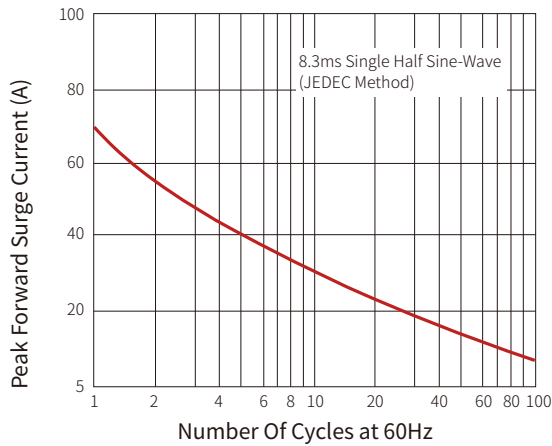


Fig.4 Typical Reverse Characteristics

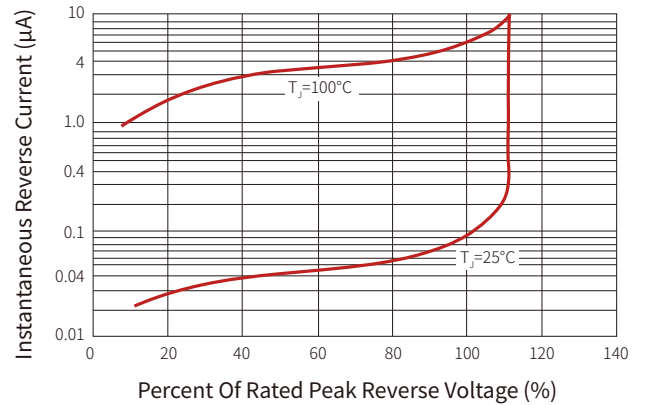
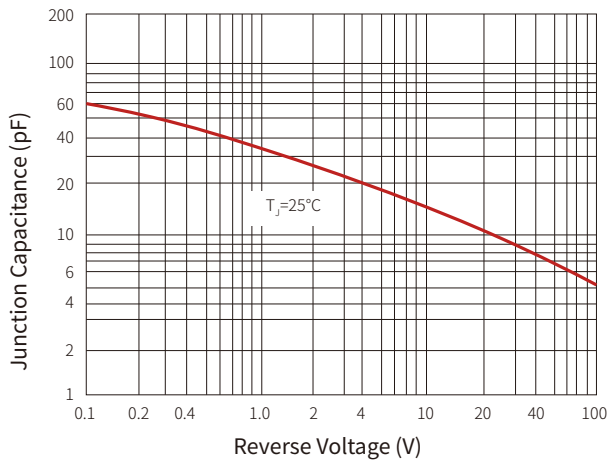
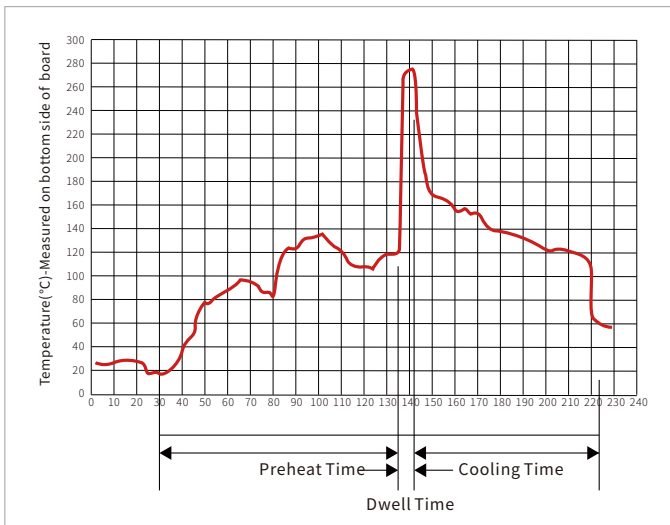


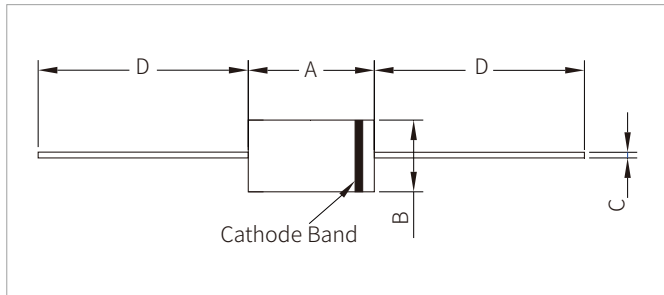
Fig.5 Typical Junction Capacitance


WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

DO-15 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.70	0.90	0.026	0.034
D	25.40	-	1.000	-

ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
RL201-RL207	DO-15	3000pcs	Box

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Wechat

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