

# RL201G-RL207G

## STANDARD RECOVERY RECTIFIERS

### FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

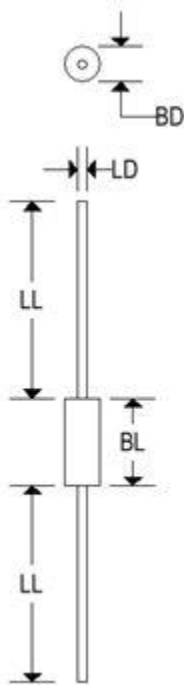
Characteristics	Symbol	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	Units
Maximum Forward Rectified Current T <sub>A</sub> = 75°C	I <sub>O</sub>	2.0							A
Maximum Forward Surge Current	I <sub>FSM</sub>	70							A
Maximum Reverse Current V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 25°C V <sub>R</sub> = V <sub>RRM</sub> , T <sub>J</sub> = 125°C	I <sub>R</sub>	5.0 50							μA
Thermal resistance, Junction to Ambient	R <sub>θJA</sub>	40							°C/W
Diode Junction Capacitance f = 1MHz and applied 4V DC Reverse Voltage	C <sub>J</sub>	20							pF
Storage Temperature Range	T <sub>STG</sub>	-65 to +175							°C
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Continuous Reverse Voltage	V <sub>R</sub>	50	100	200	400	600	800	1000	V
Maximum Forward Voltage @ I <sub>F</sub> = 1.5A	V <sub>F</sub>	1.1	1.1	1.1	1.1	1.1	1.1	1.1	V

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### MECHANICAL CHARACTERISTICS

Case:	DO-15
Marking:	Alpha-numeric
Polarity:	Cathode band



	DO-15			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.100	0.140	2.540	3.556
BL	0.200	0.300	5.080	7.620
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-

FIG.1-TYPICAL FORWARD CHARACTERISTICS

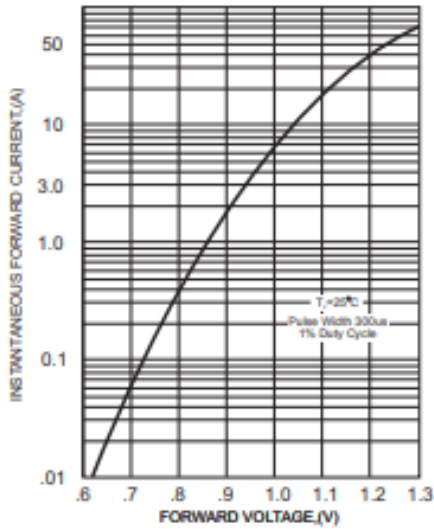


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

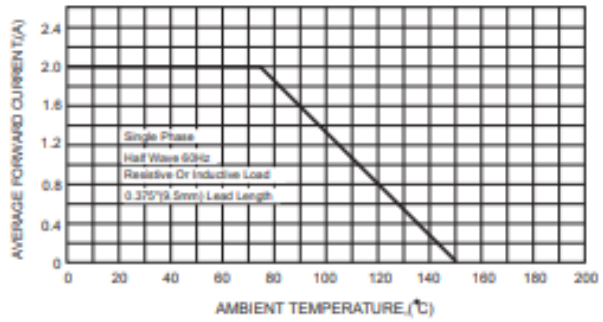


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

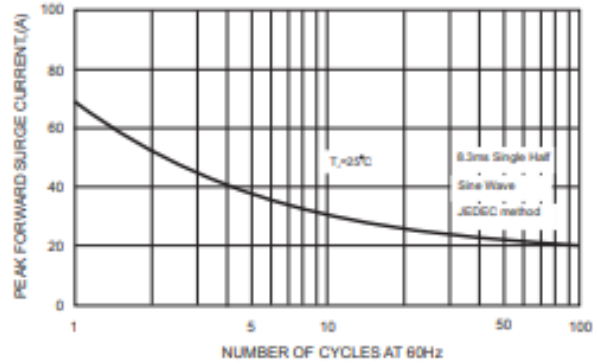


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

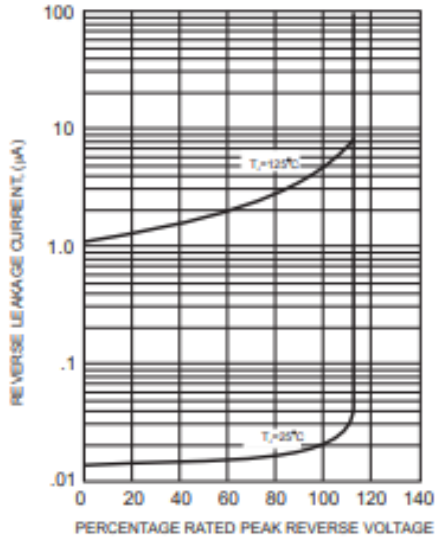


FIG.5-TYPICAL JUNCTION CAPACITANCE

