



**DC COMPONENTS CO., LTD.**

RECTIFIER SPECIALISTS

**RL201G  
THRU  
RL207G**

**TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED RECTIFIER**

**VOLTAGE RANGE - 50 to 1000 Volts**

**CURRENT - 2.0 Amperes**

**FEATURES**

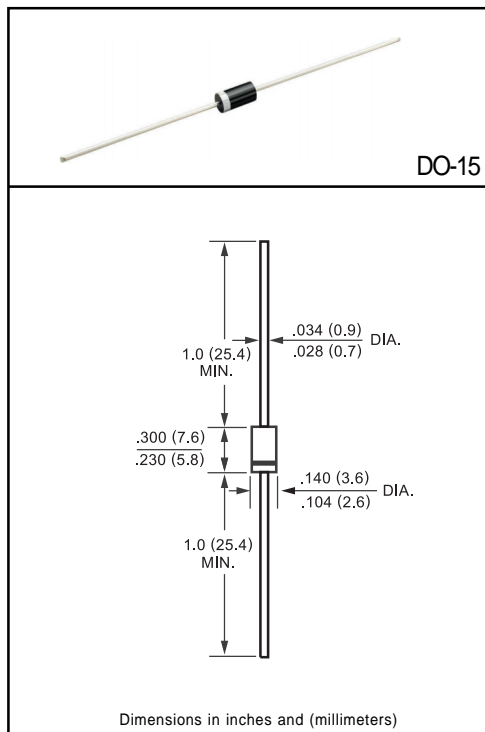
- \* High reliability
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* Glass passivated junction

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.38 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



		SYMBOL	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C		Io	2.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	70							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	1.1							Volts
Maximum DC Reverse Current	@ TA = 25°C	Ir	5.0							uAmps
at Rated DC Blocking Voltage	@ TA = 100°C		50							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at TL = 75°C				30						
Typical Junction Capacitance (Note)		CJ	20							pF
Typical Thermal Resistance		RθJA	40							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175							°C

NOTES : Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (RL201G THRU RL207G)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

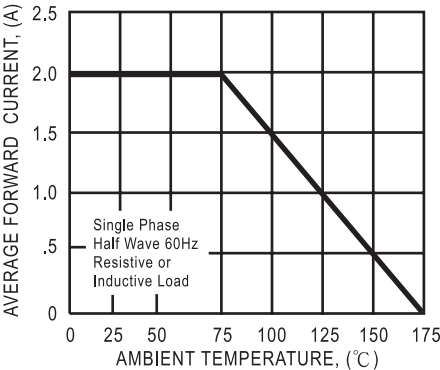


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

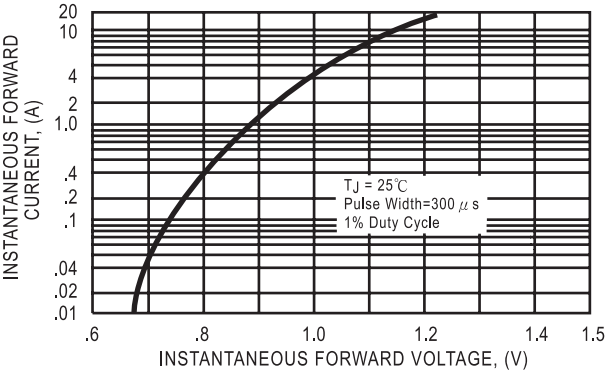


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

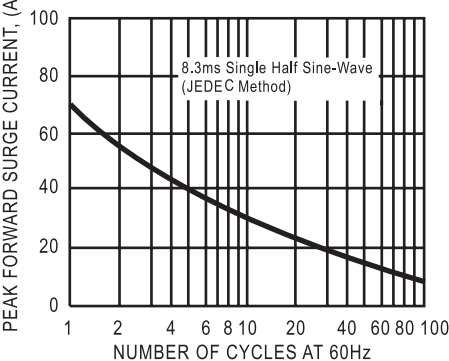


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

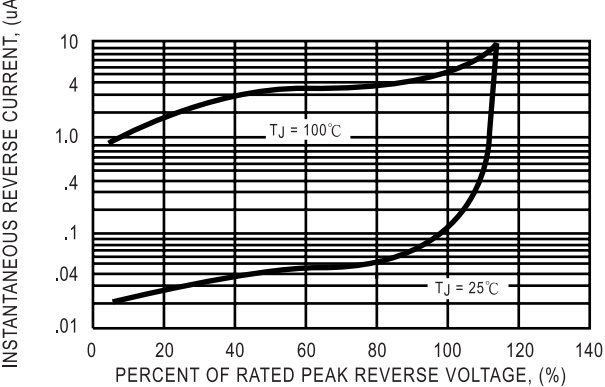


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

