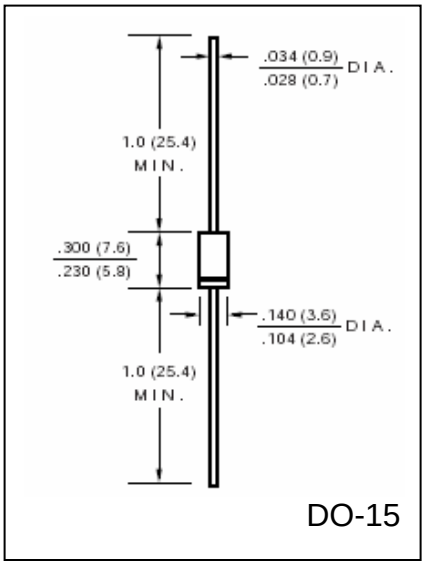
GLASS PASSIVATED RECTIFIER

RL201G THRU RL207G

VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

FEATURES

- Low reverse leakage
- Glass passivated chip junction
- High forward surge current capacity
- High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length



DO-15

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V – 0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: any
- Weight: 0.014 ounce, 0.39 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^{O}C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) lead length at T_A = 75^{O}C (Note 1)	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	70							Amps
Maximum Instantaneous Forward Voltage @ 1.5A	V_F	1.1							Volts
Maximum DC Reverse Current at Rated T_A = 25 ^{O}C	I_R	5.0							µA
DC Blocking Voltage per element T_A = 125 ^{O}C		50							
Maximum Full Load Reverse Current, full cycle Average 0.375" (9.5mm) lead length at T_L = 75 ^{O}C	$I_{R(AV)}$	30							µA
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_J	20							pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40							^{O}C/W
Operating Junction Temperature Range	T_J	(-65 to +175)							^{O}C
Storage Temperature Range	T_{STG}	(-65 to +175)							^{O}C

Notes:

Thermal resistance from junction to ambient with 0.375" (9.5mm) lead length, PCB mounted

RATINGS AND CHARACTERISTIC CURVES RL201G THRU RL207G

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

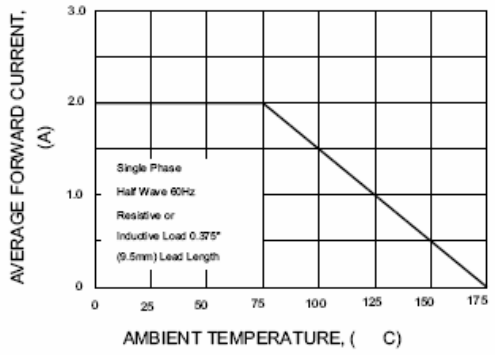


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

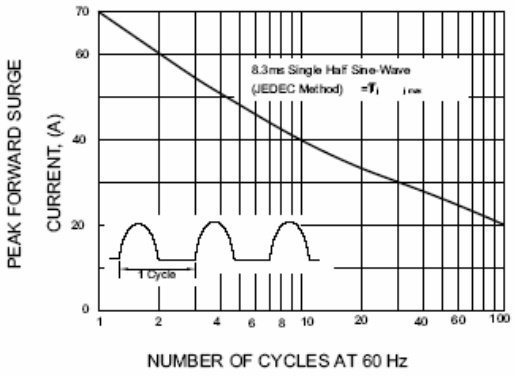


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

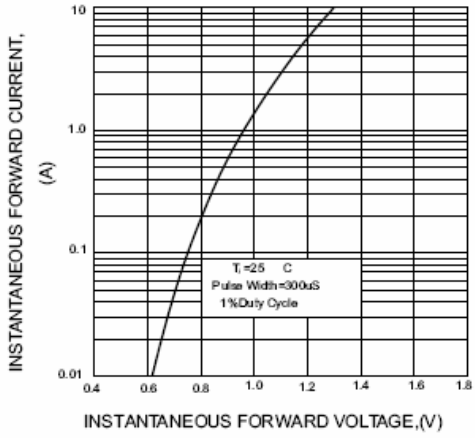


FIG.4-TYPICAL REVERSE CHARACTERISTICS

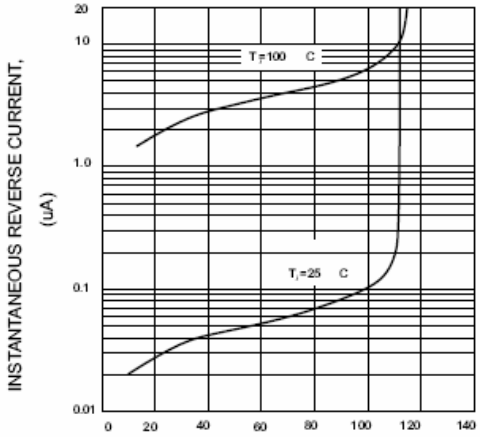


FIG.5-TYPICAL JUNCTION CAPACITANCE