

## RL201G thru RL208G

### Glass Passivated Junction General Purpose Rectifiers Reverse Voltage 50 to 1200V Forward Current 2.0A

#### 1.Feature & Dimensions

- \* Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- \* Construction utilizes void-free molded plastic technique
- \* Low reverse leakage
- \* High forward surge capability
- \* Cavity-free Glass passivated junction
- \* High temperature soldering guaranteed:  
 260°C/10 seconds, 0.375" (9.5mm) lead length,  
 5 lbs. (2.3kg) tension

#### 2.Mechanical Data

**Case:** JEDEC DO-15, molded plastic over glass body

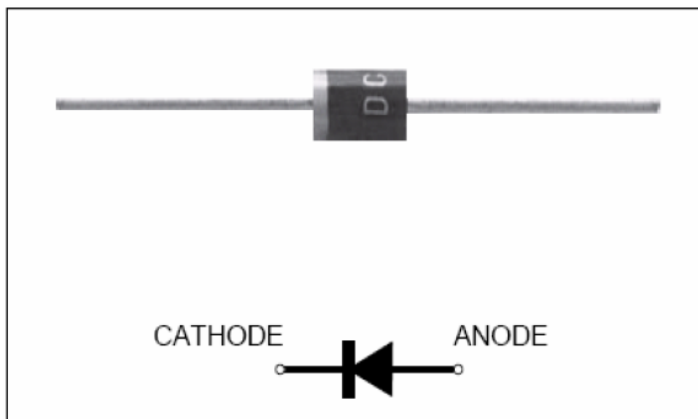
**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.015 oz., 0.40 g

**Handling precaution:** None



#### 3.Electrical Characteristic

**Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.**

Parameter Symbol	symbol	RL201 G	RL202 G	RL203 G	RL204 G	RL205 G	RL206 G	RL207 G	RL208 G	Unit
Marking		RL201 G	RL202 G	RL203 G	RL204 G	RL205 G	RL206 G	RL207 G	RL208 G	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1200	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	840	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	1200	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 75^\circ\text{C}$	$I_F(AV)$	2.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	70								A
Typical thermal resistance (Note 1)	$R_{\theta JA}$	50								°C/W
Maximum DC blocking voltage temperature	$T_A$	150								°C
Operating junction temperature range	$T_J$	-50 to +150								°C
Storage temperature range	$T_{STG}$	-50 to +150								°C

**Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.**

Parameter Symbol	symbol	RL201 G	RL202 G	RL203 G	RL204 G	RL205 G	RL206 G	RL207 G	RL208 G	Unit
Maximum instantaneous forward voltage at 2.0A	$V_F$	1.10								V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_J = 125^\circ\text{C}$	$I_R$	5.0								$\mu\text{A}$
Typical junction capacitance at 4.0V, 1MHz	$C_J$	30								PF

NOTES:

1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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### 4. Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

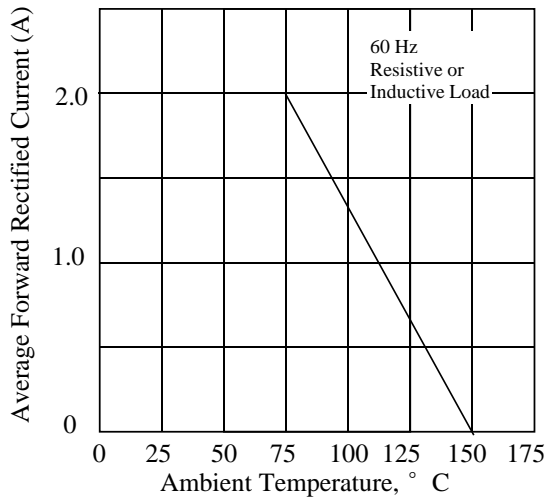


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

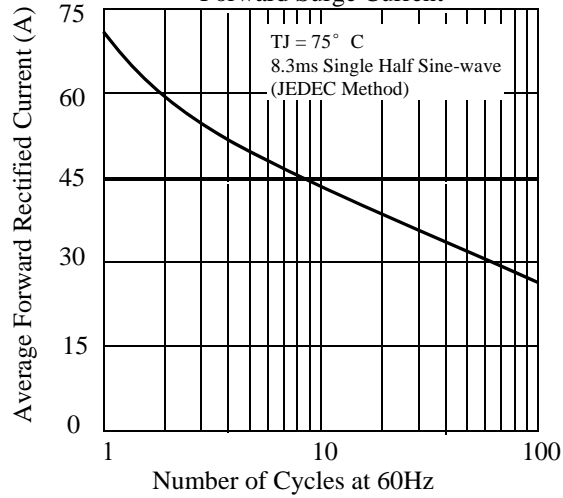


Fig. 3 - Typical Instantaneous Forward Characteristics

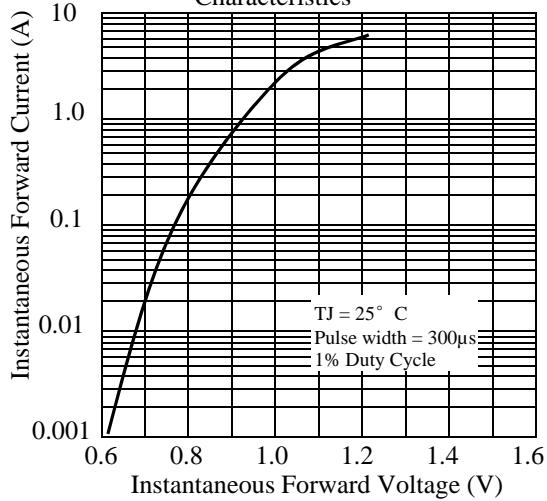


Fig. 4 - Typical Reverse Characteristics

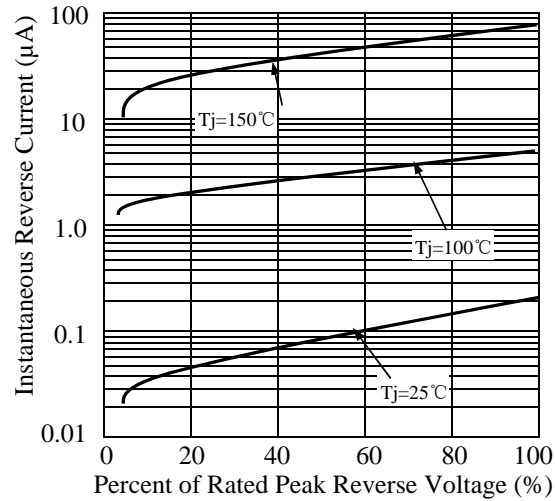


Fig. 5 - typical transient thermal impedance

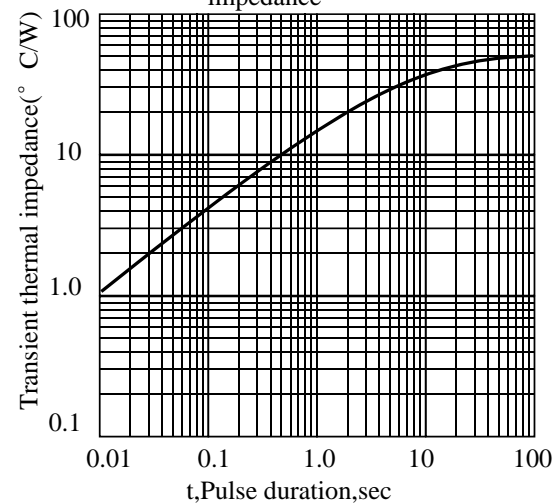
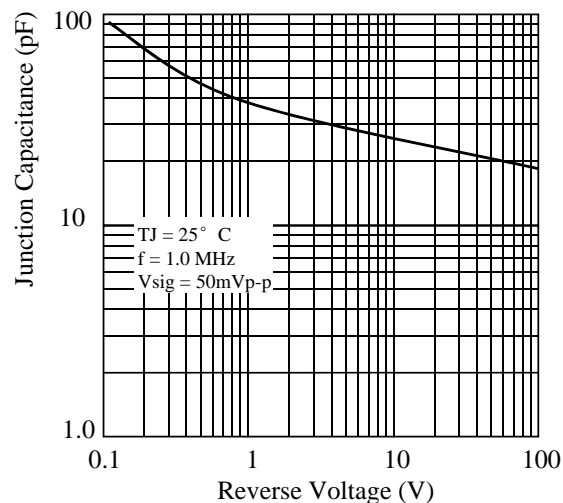
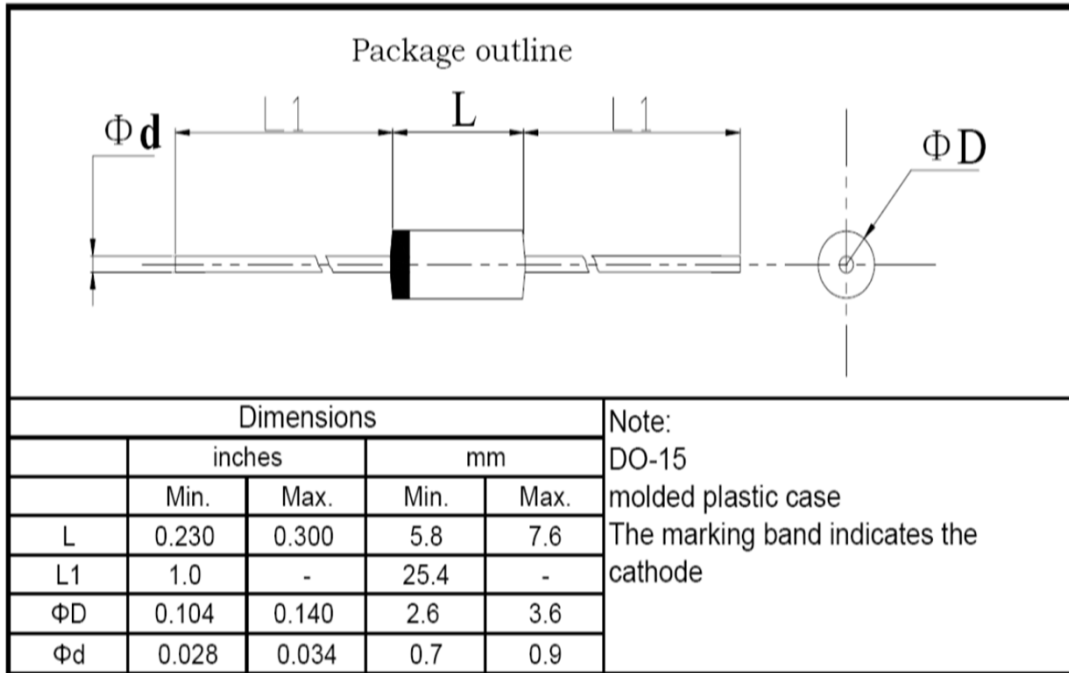


Fig. 6 - Typical Junction Capacitance



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### 3. dimension:



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### 4.Update Record

版次	更新记录	更新作者	更新日期
1	第一版	余波	2012-2-10
2	调整版面	周杰	2012-8-2
3	IFSM60A调整为70A	谭志伟	2021-12-1

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