

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

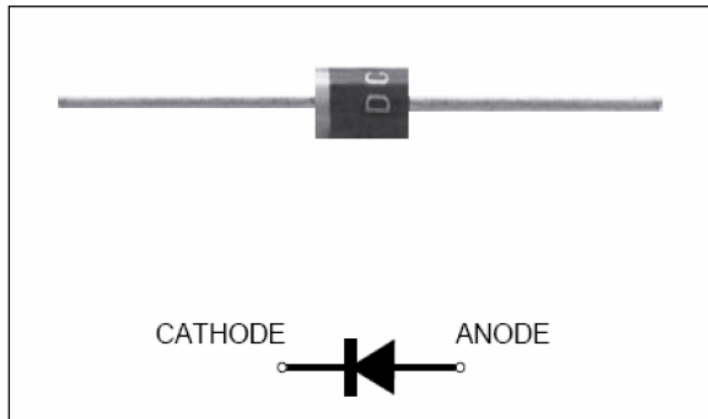
Terminals: Plated axial leads, solderable per
MIL-STD-750, Method 2026

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								$^\circ\text{C/W}$
Maximum DC blocking voltage temperature	T_A	150								$^\circ\text{C}$
Operating junction temperature range	T_J	-50 to +150								$^\circ\text{C}$
Storage temperature range	T_{STG}	-50 to +150								$^\circ\text{C}$

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	5.0 200								μA
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 ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

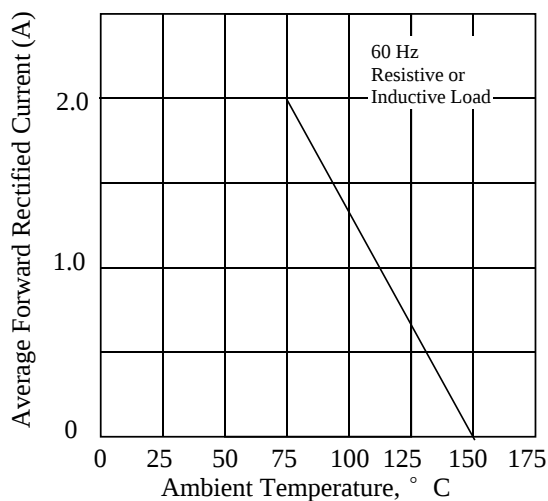


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

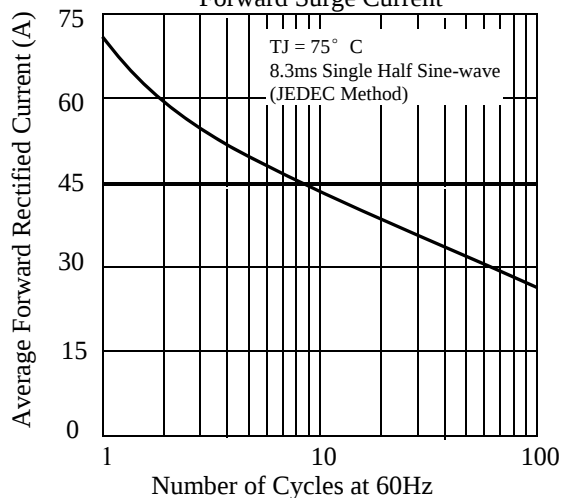


Fig 3. - Typical Instantaneous Forward Characteristics

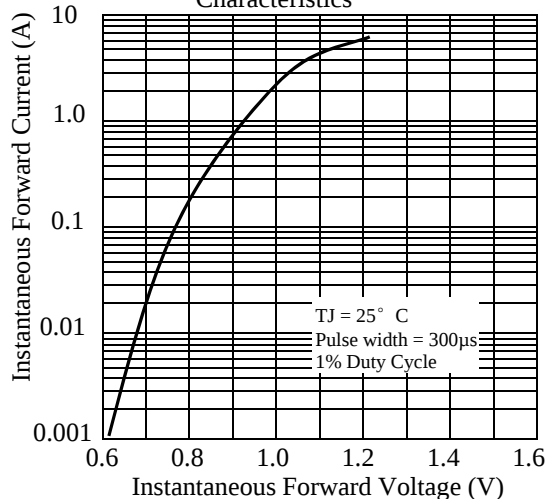


Fig 4. - Typical Reverse Characteristics

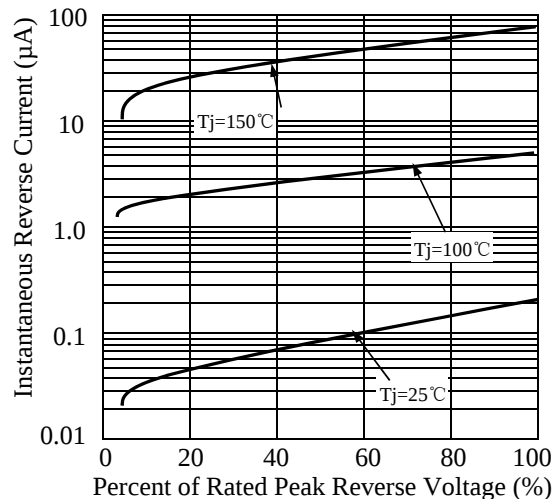


Fig 5. - typical transient thermal impedance

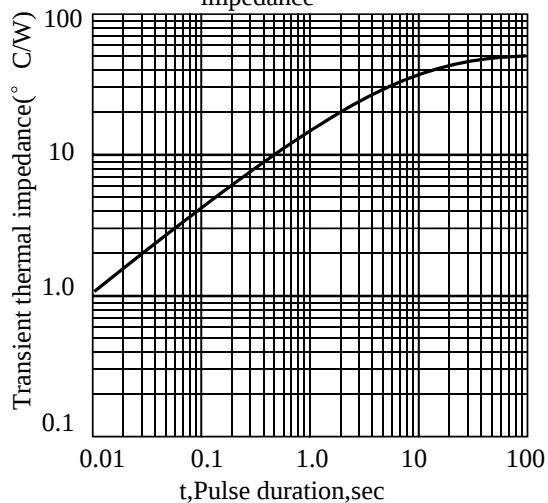
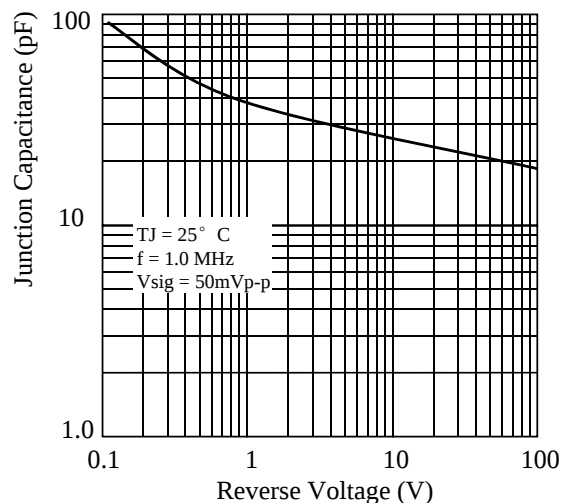
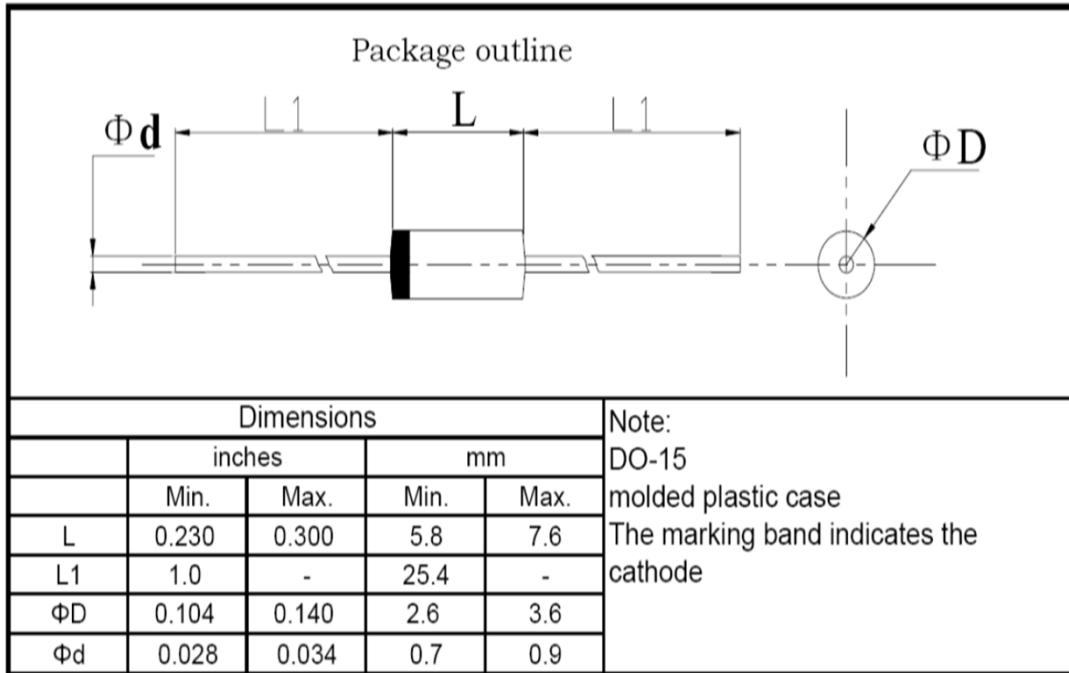


Fig 6. - Typical Junction Capacitance



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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