

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

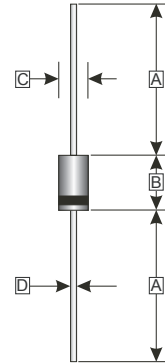
## FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Glass passivated junction

## MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.43 grams (approximately)

DO-15



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.62
C	2.60	3.60
D	-	0.90

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit	
		RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G		
Maximum Recurrent Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum Instantaneous Forward Voltage @ $I_F = 2A$	$V_F$	1							V	
Maximum Average Forward Rectified Current. 0.375" (9.5mm) lead length @ $T_A = 75^\circ C$	$I_O$	2							A	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	70							A	
Maximum DC Reverse Current	$I_R$	$T_A = 25^\circ C$	5							A
		$T_A = 100^\circ C$	50							
Typical Junction Capacitance <sup>1</sup>	$C_J$	20							pF	
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JA}$	40							°C / W	
	$R_{\theta JC}$	25								
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65~175							°C	

Note:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1-TYPICAL FORWARD CHARACTERISTICS

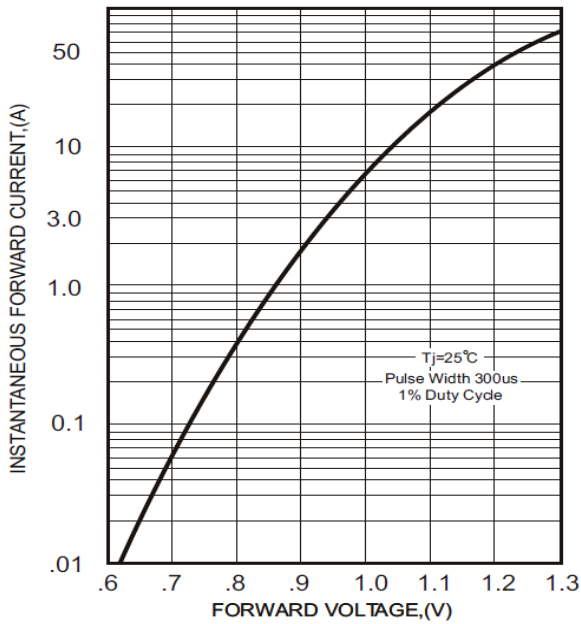


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

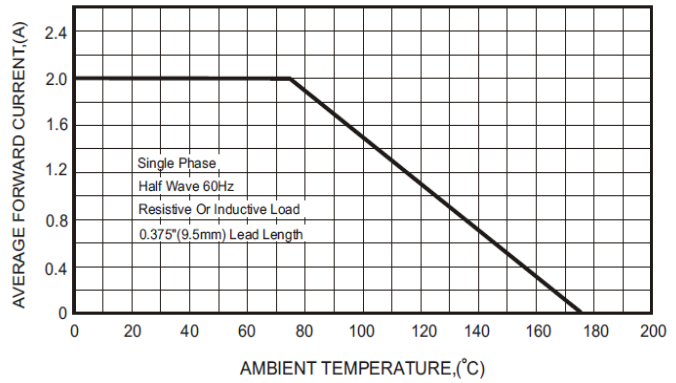


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

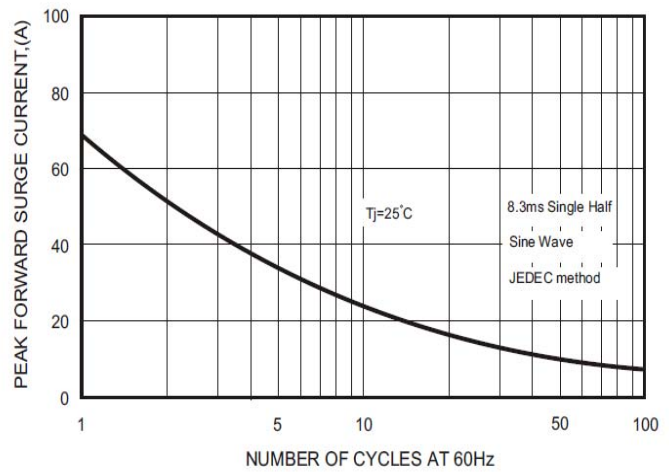


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

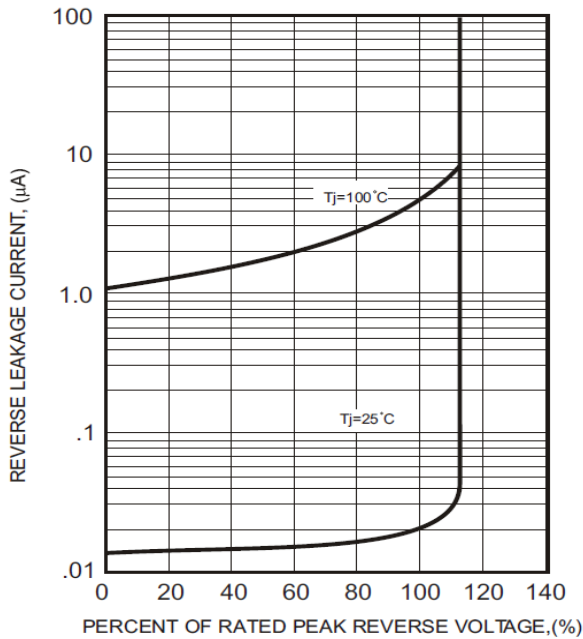


FIG.5-TYPICAL JUNCTION CAPACITANCE

