

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

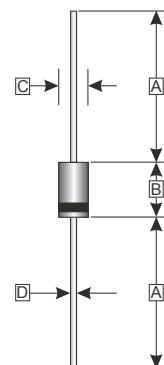
FEATURES

- 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%.)

or capacitive load; dc-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°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	T _A =25°C	I _R	5							A
	T _A =100°C		50							
Typical Junction Capacitance ¹		C _J	20							pF
Typical Thermal Resistance ²		R _{θJA}	40							°C / W
		R _{θJC}	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

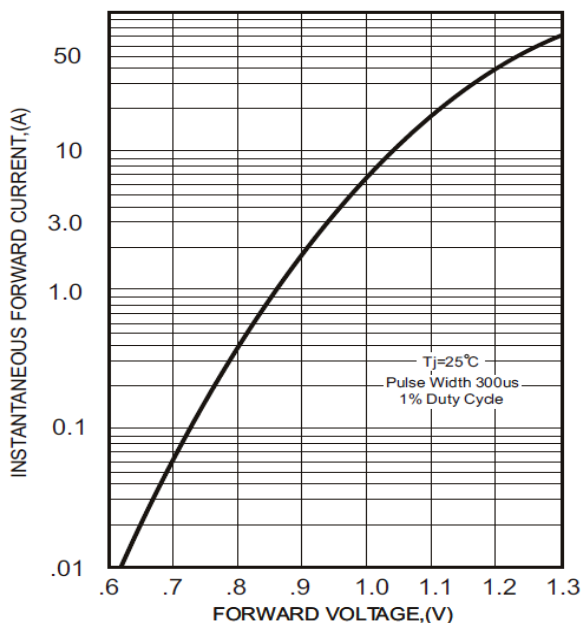


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

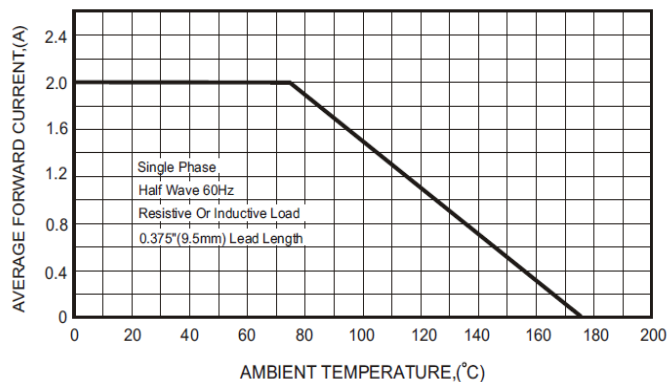


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

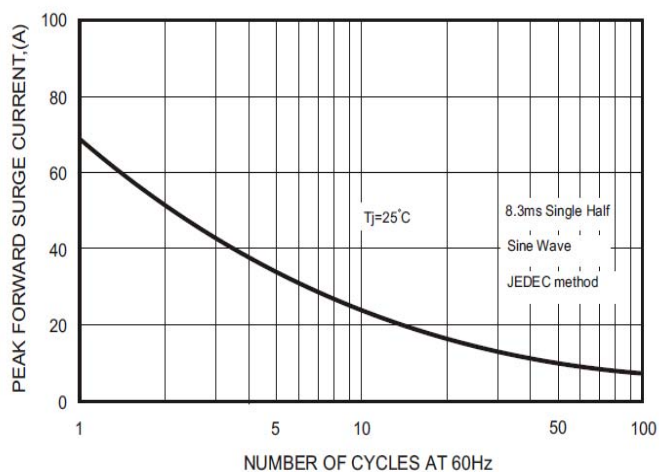


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

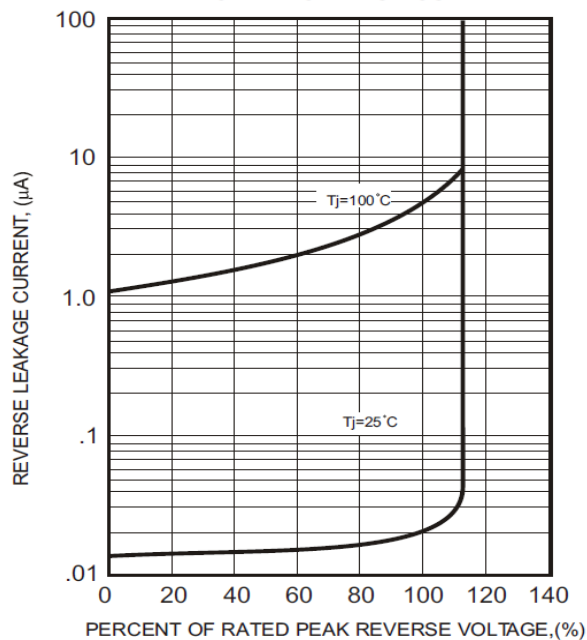


FIG.5-TYPICAL JUNCTION CAPACITANCE

