



VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 2.0 A

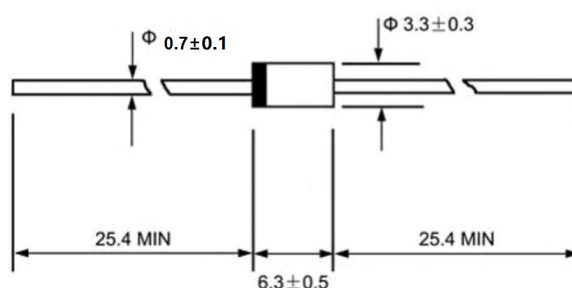
Features

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Glass passivated junction
- ◇ High current capability
- ◇ Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ◇ Case: JEDEC DO-15, molded plastic
- ◇ Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting position: Any
- ◇ Weight: 0.014 ounces, 0.39 grams

DO-15



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	UNITS
Maximum recurrent peak 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 average forward rectified current 9.5mm lead length, @ $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J = 125^\circ\text{C}$	I_{FSM}	70.0							A
Maximum instantaneous forward voltage @ 2.0 A	V_F	1.1							V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 50.0							μA
Typical junction capacitance (Note1)	C_J	20							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	40							$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55----+175							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55----+175							$^\circ\text{C}$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.



Ratings AND Characteristic Curves

FIG.1 -- FORWARD DERATING CURVE

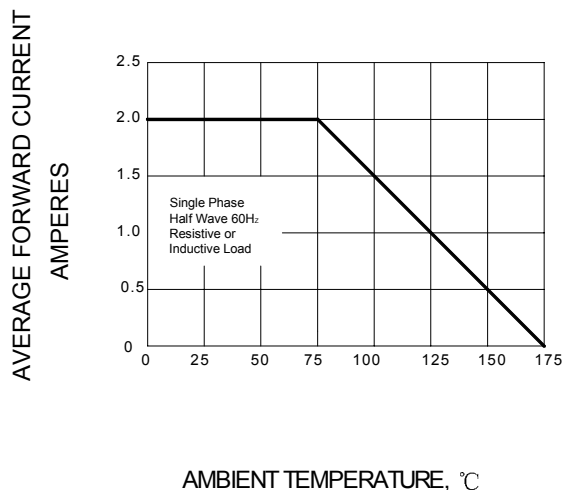


FIG.2 -- TYPICAL FORWARD CHARACTERISRIC

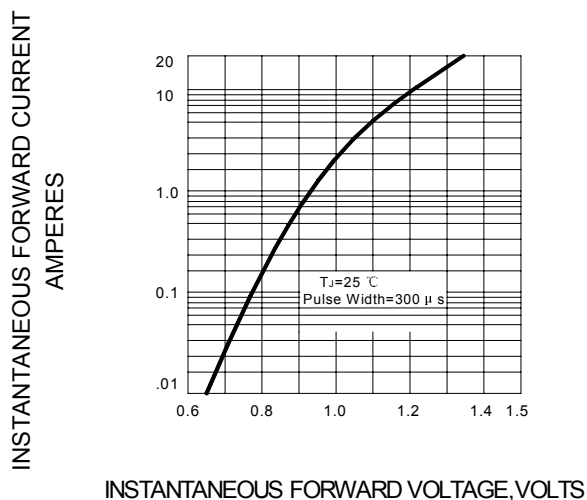


FIG.3 -- PEAK FORWARD SURGE CURRENT

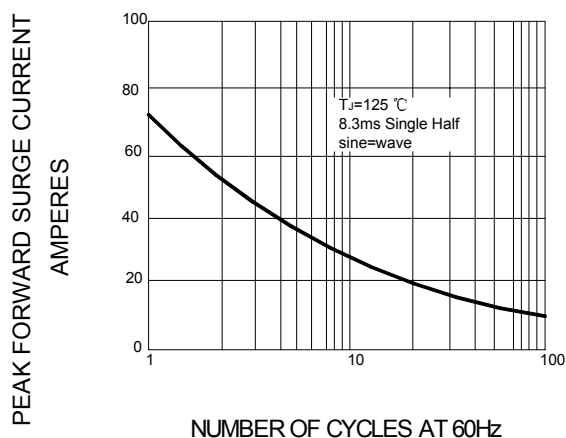


FIG.4 --TYPICAL JUNCTION CAPACITANCE

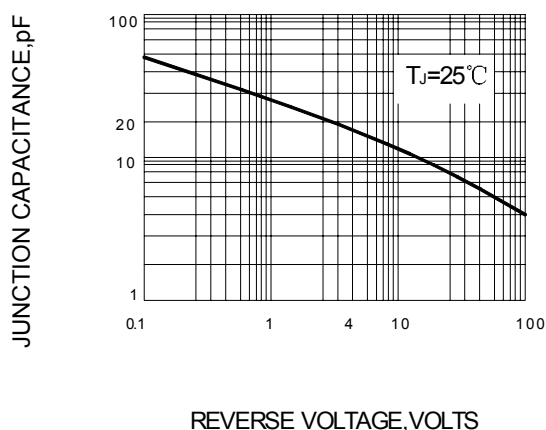
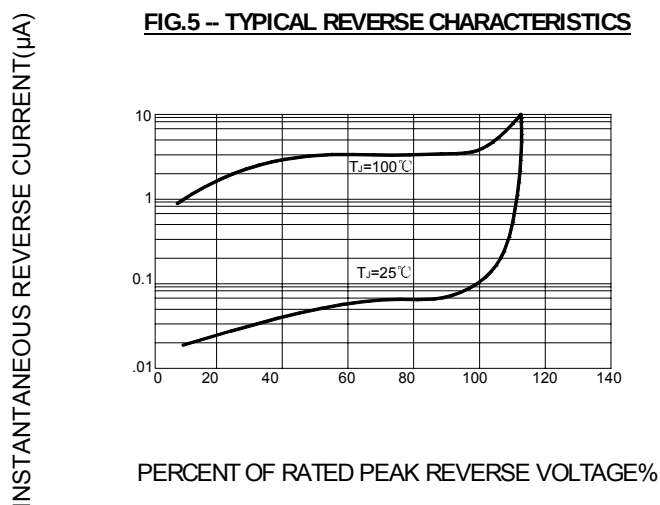


FIG.5 -- TYPICAL REVERSE CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-15	3000/AMMO	30000	42X28X31	12.00	10.00