



DONGGUAN NANJING ELECTRONICS LTD.,
DO-15 Plastic-Encapsulate Diodes

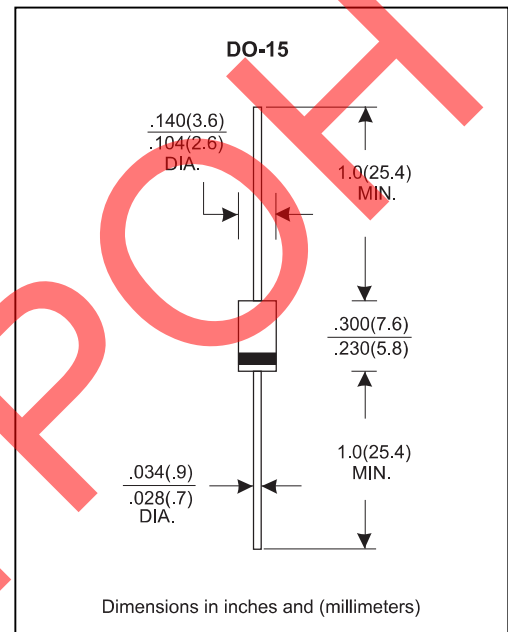
RL201G THRU RL207G 2.0 AMP GLASS PASSIVATED RECTIFIERS

FEATURES

- $I_{F(AV)}$ 2A
- V_{RRM} 50V-1000V
- * 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: 0.40 grams



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, derate current by 20%.

TYPE NUMBER	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=75°C	2.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	70							A
Maximum Instantaneous Forward Voltage at 2.0A	1.1							V
Maximum DC Reverse Current Ta=25°C	5.0							μA
at Rated DC Blocking Voltage Ta=100°C	50							μA
Typical Junction Capacitance (Note 1)	20							pF
Typical Thermal Resistance RθJA (Note 2)	40							°C/W
Operating and Storage Temperature Range Tj, Tstg	-65 — +175							°C

NOTES:

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.

Typical Characteristics

RATING AND CHARACTERISTIC CURVES (RL201G THRU RL207G)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

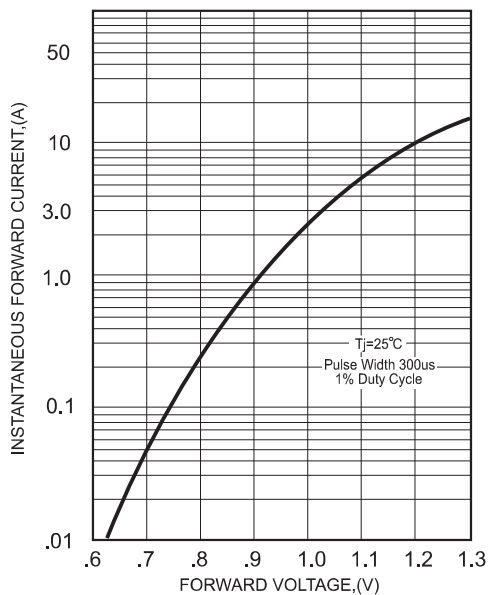


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

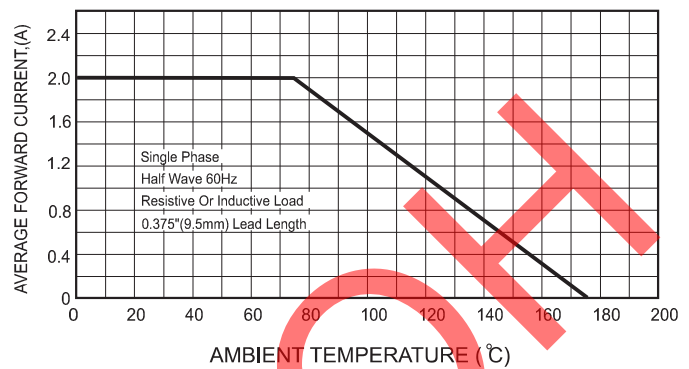


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

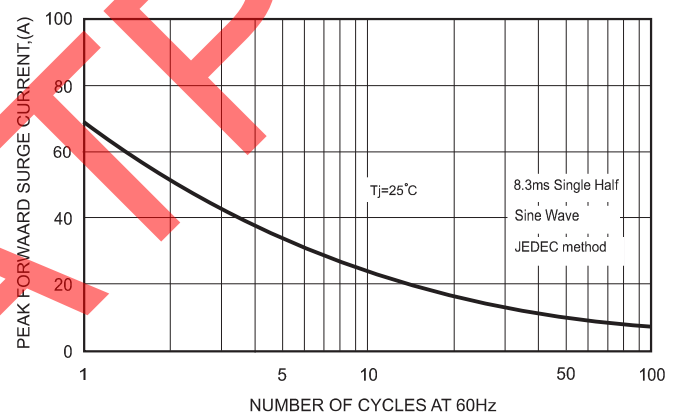


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

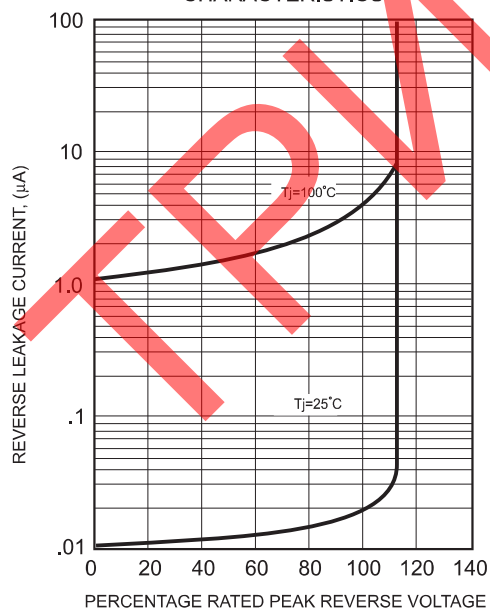
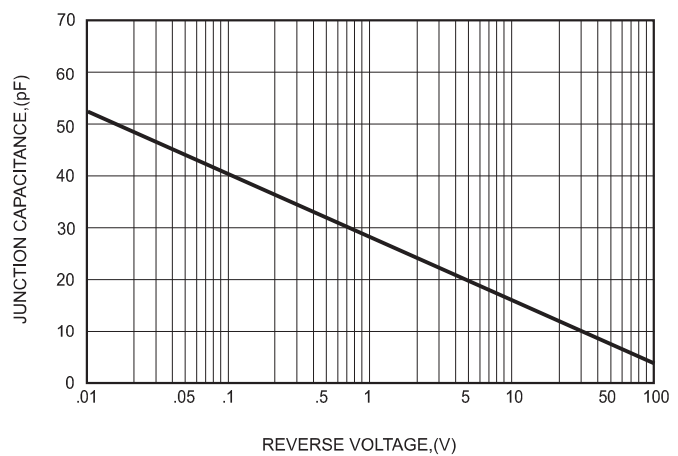
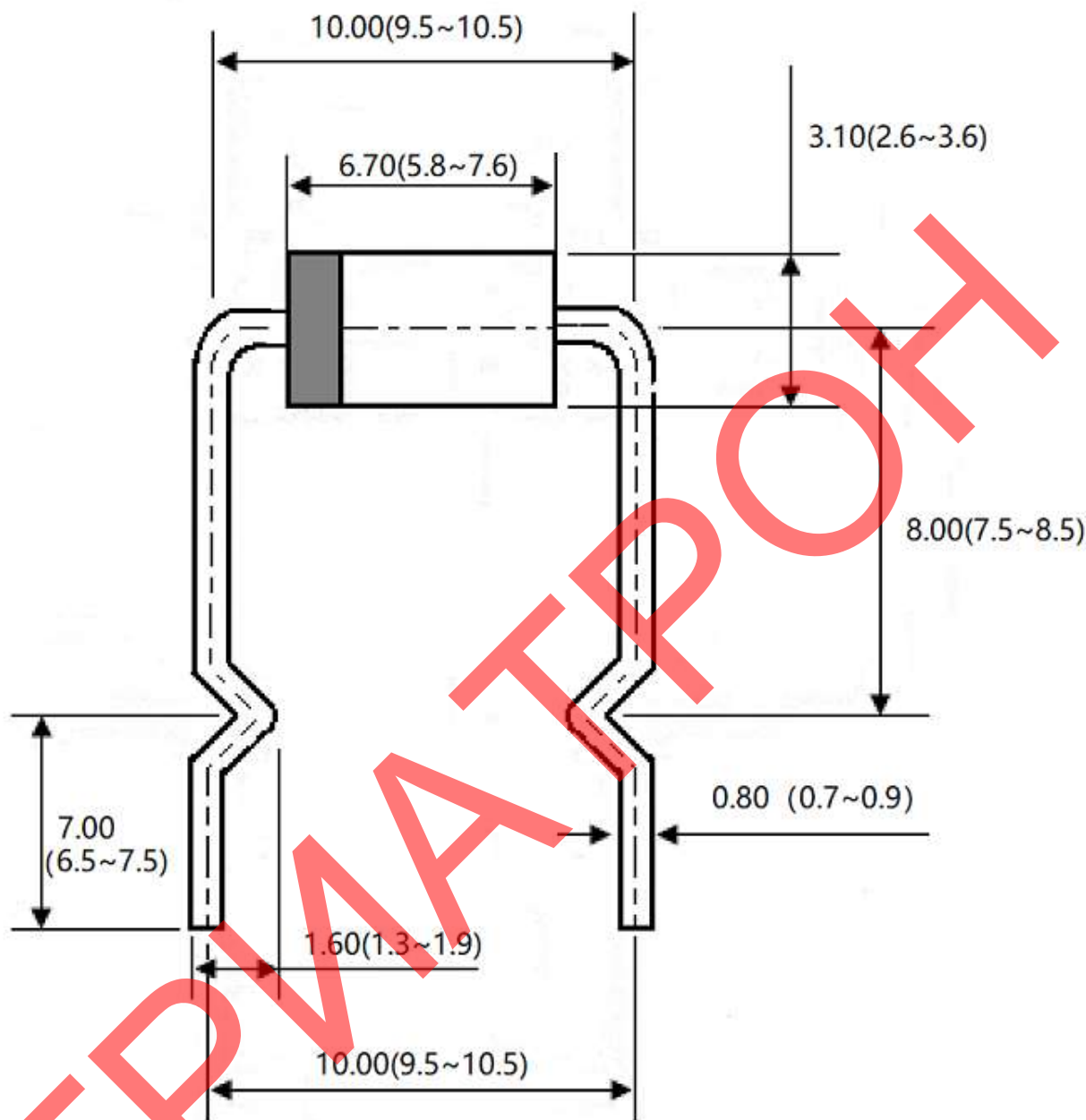


FIG.5-TYPICAL JUNCTION CAPACITANCE





UNLESS OTHERWISE SPECIFIED LIMITS
ARE: ANGULAR $\pm 1.0'$
.0 $\pm .50$
.00 $\pm .10$
.000 $\pm .05$

TITLE: RL207G 成型规格图

MAT'L.

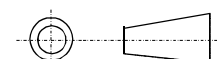
QTY:

FINISH: 2023/07/27

UNIT: mm

SCALE:

SH'T: 1 OF 1



DRAWN

CHECKED

APPROVED

DAW.NO.:

DO-15-M2

A4

REV:

A

张洁