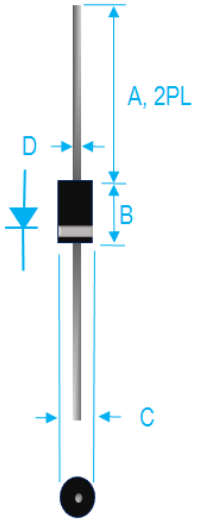
RL201G THRU RL207G SPECIFICATION

Rev. A

2A GENERAL PURPOSE RECTIFIER



Dim.	Value Inch[mm] Min.	Max.
A	1.000[25.40]	---
B	0.230[5.84]	0.300[7.62]
C	0.104[2.64]	0.140[3.56]
D	0.028[0.71]	0.034[0.86]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. HIGH CURRENT AND SURGE CAPABILITY
3. LOW FORWARD VOLTAGE DROP
4. MOLDED AND INSULATED BODY
5. LOW LEAKAGE CURRENT
6. CASE: MOLDED PLASTIC DO-15
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-202, METHOD 208
9. PLATING FINISH: TIN
10. WEIGHT: 0.4 GRAMS
11. RoHS COMPLIANT, LEAD FREE

ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (T_A =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE NOTE1	I_O	2.0	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	70	A
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	1.1	V
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jA}$	25	°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +175	°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO +175	°C
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5	μA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	50	μA

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V)	MAX V_{RMS} (V)	MAXIMUM FORWARD VOLTAGE @25°C V_F(V)
RL201G	50	35	1.1
RL202G	100	70	1.1
RL203G	200	140	1.1
RL204G	400	280	1.1
RL205G	600	420	1.1
RL206G	800	560	1.1
RL207G	1000	700	1.1

NOTE： 1. MEASURED AT T_A=55°C WITH 0.375" (9.5mm) LONG LEAD LENGTH.
2. BOTH LEADS ATTACHED TO HEAT SINK 35x35x1T (mm) COPPER PLATE AT LEAD LENGTH = 5mm.
3. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

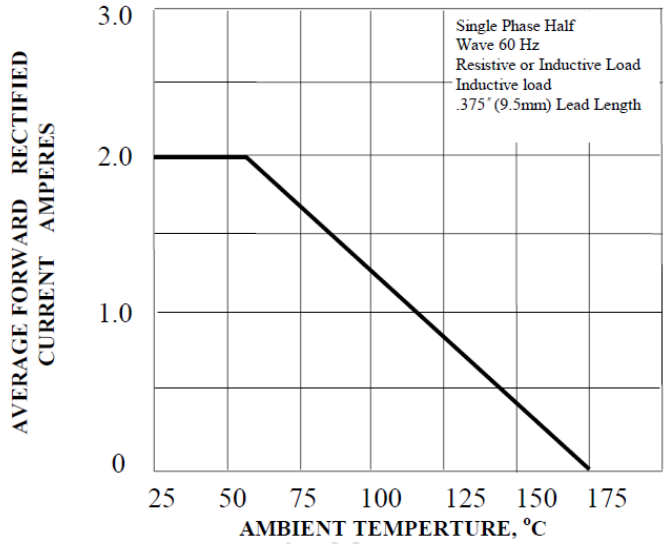


FIG. 2 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

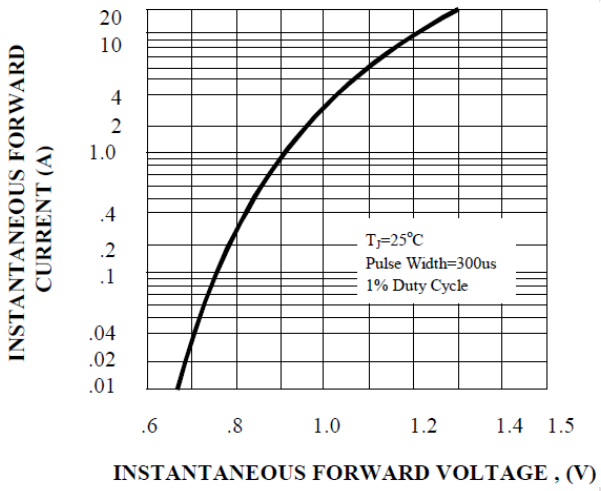


FIG. 3 -PEAK FORWARD SURGE CURRENT

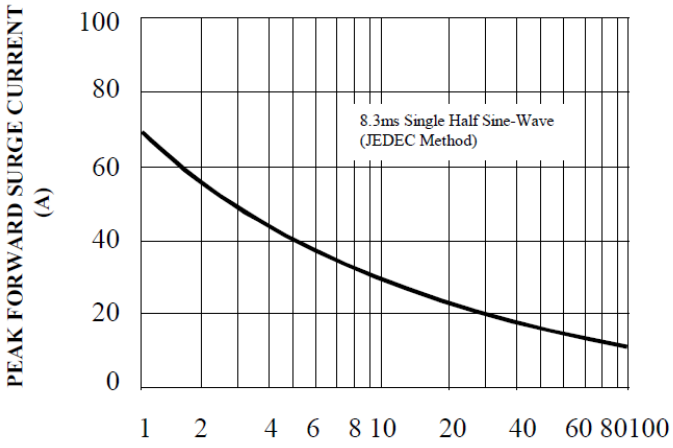


FIG. 4 - TYPICAL REVERSE CHARCTERISTICS

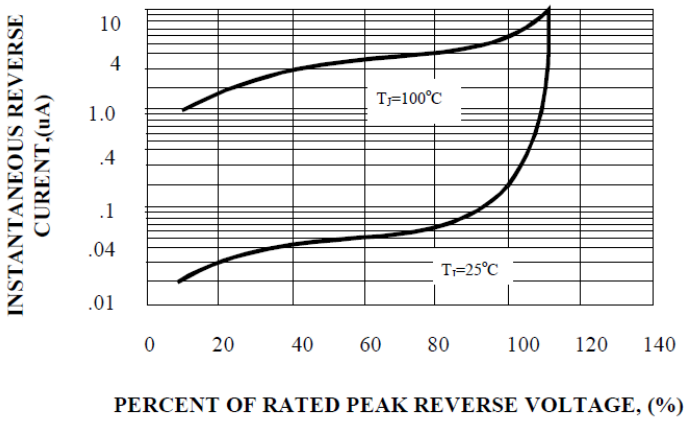


FIG. 5 -TYPICAL JUNCTION CAPACITANCE