

1. Scope

The present specifications shall apply to RL2.

2. Outline

Type	Silicon Diode	
Structure	Resin Molded	Flammability:UL94-V0(Equivalent)
Applications	High Frequency Rectification, etc.	

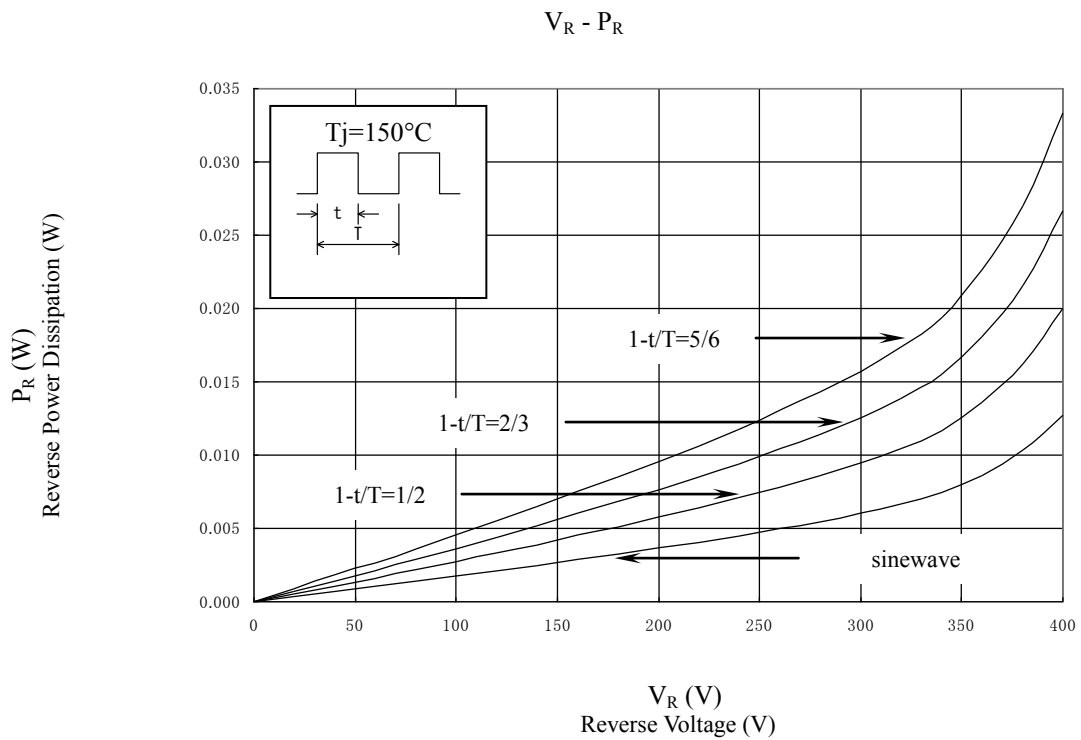
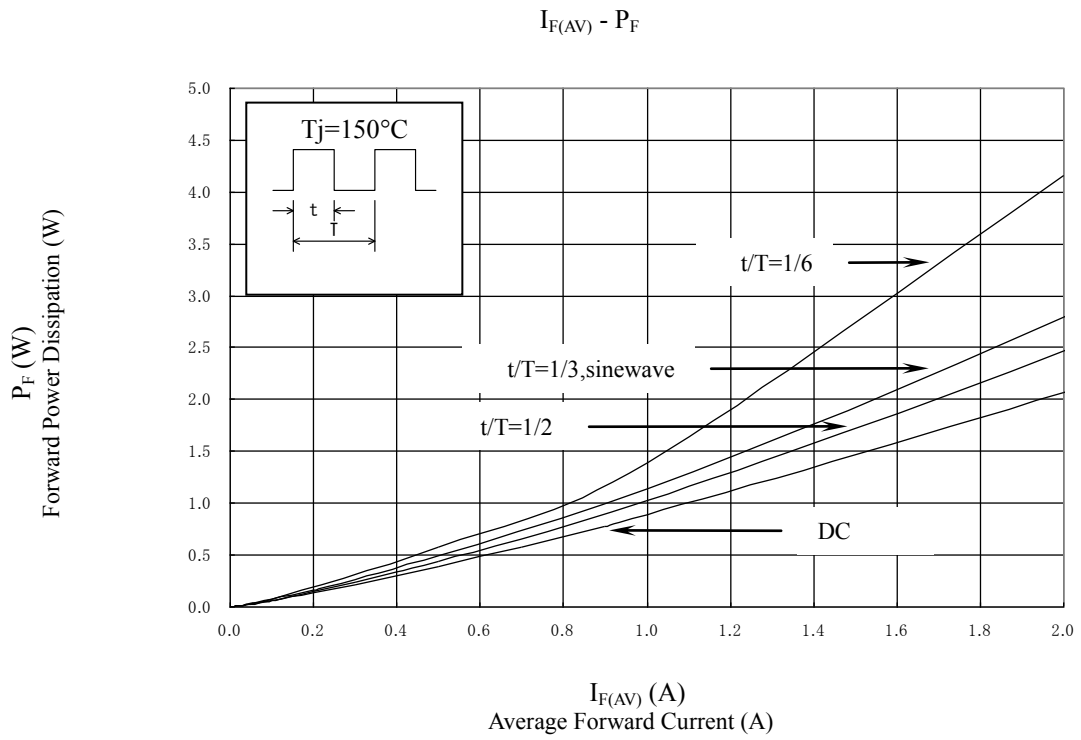
3. Absolute maximum ratings

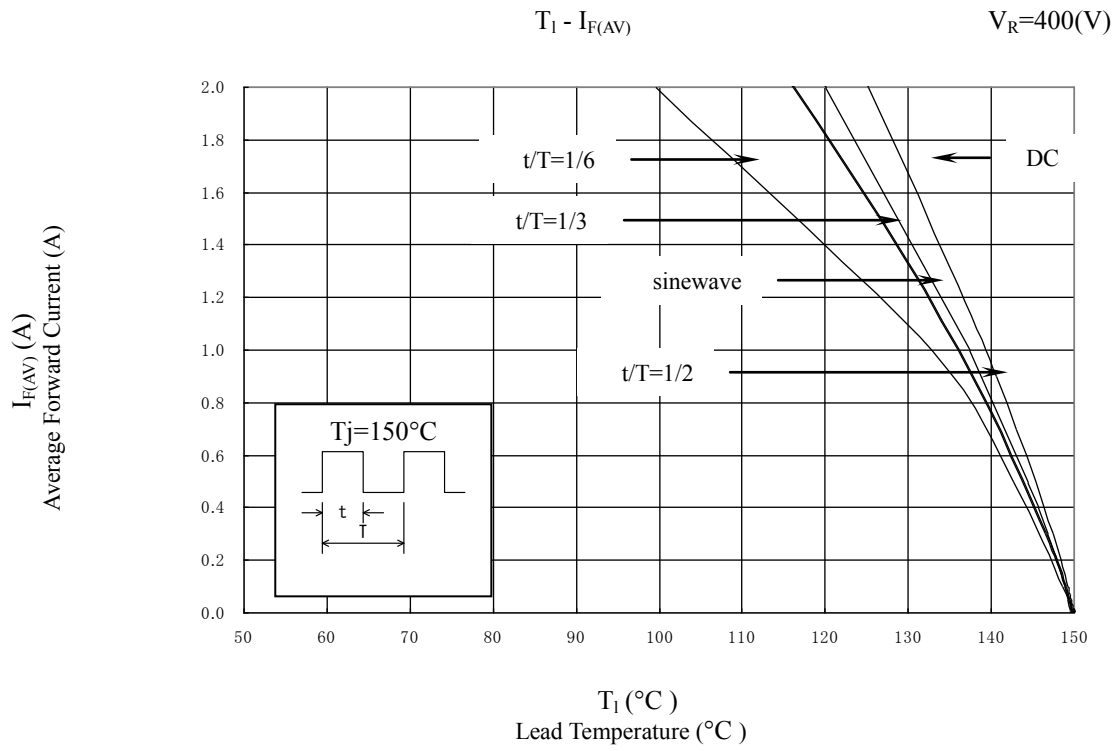
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	400	
2	Peak Reverse Voltage	V_{RM}	V	400	
3	Average Forward Current	$I_{F(AV)}$	A	2.0	$T_c=116^{\circ}\text{C}$ Sinewave
4	Peak Surge Forward Current	I_{FSM}	A	40	10msec. half sinewave, One shot.
5	I^2t Limiting Value	I^2t	A^2S	8.0	
6	Junction Temperature	T_j	$^{\circ}\text{C}$	-40~+150	
7	Storage Temperature	T_{stg}	$^{\circ}\text{C}$	-40~+150	

4. Electrical characteristics ($T_a=25^{\circ}\text{C}$, unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.3 max.	$I_F=2.0\text{A}$
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	100 max.	$V_R=V_{RM}$, $T_j=150^{\circ}\text{C}$
4	Reverse Recovery Time	T_{rr-1}	ns	50 max.	$I_F=I_{RP}=100\text{mA}$, $T_j=25^{\circ}\text{C}$ 90%Recovery point
		T_{rr-2}	ns	35 max.	$I_F=100\text{mA}$, $I_{RP}=200\text{mA}$, $T_j=25^{\circ}\text{C}$ 75%Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	$^{\circ}\text{C}/\text{W}$	12 max.	Between Junction and Lead

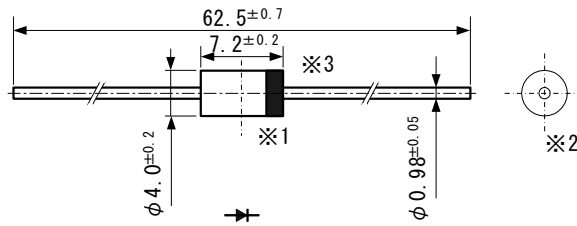
5. Characteristics





6. Package information

6-1 Package type, physical dimensions and material



- *1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- *2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
- *3 The burr may exit up to 2mm from the body of lead

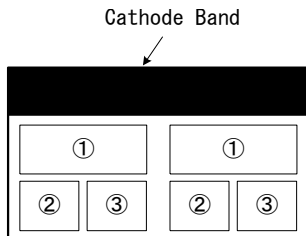
Dimensions in mm

6-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

6-3 Marking

- ① Type number RL2
- ② Lot number 1
 - First digit: Last digit of Year
 - Second digit: Month
 - From 1 to 9 for Jan. to Sep.
 - O for Oct., N for Nov., and D for Dec.



- ③ Lot number 2 (ten days)
 - : Top of the month
 - : Middle of month
 - : End of month

The Type number and Lot number are to be marked in red.