

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. | |

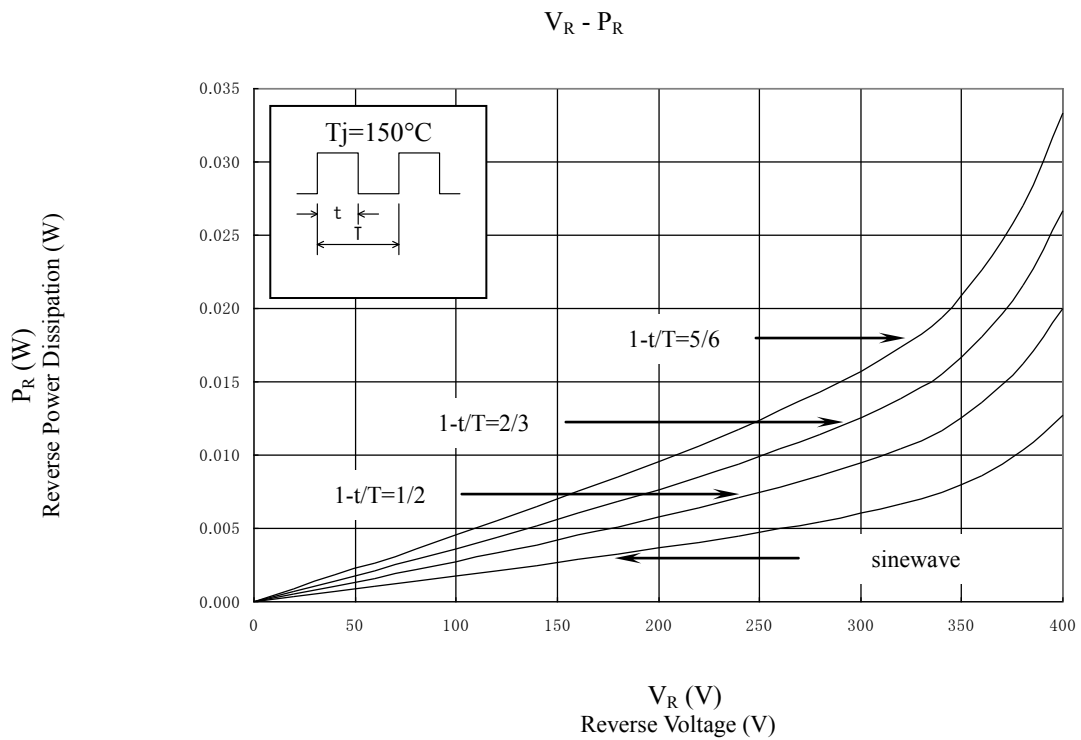
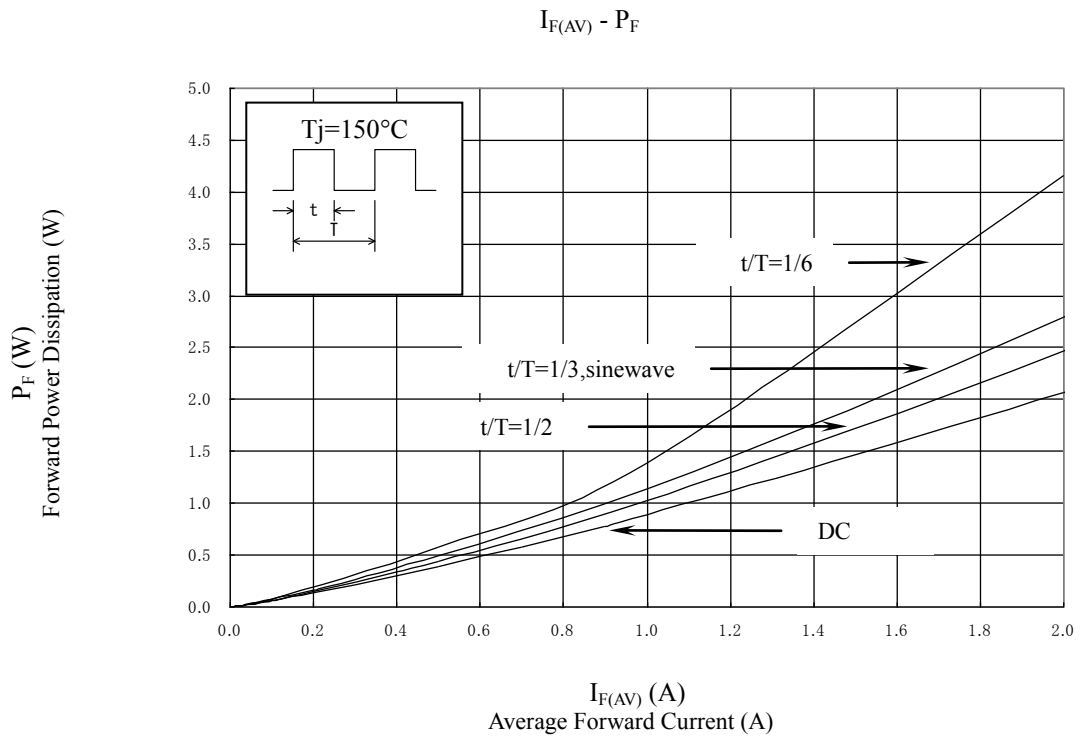
3. Absolute maximum ratings

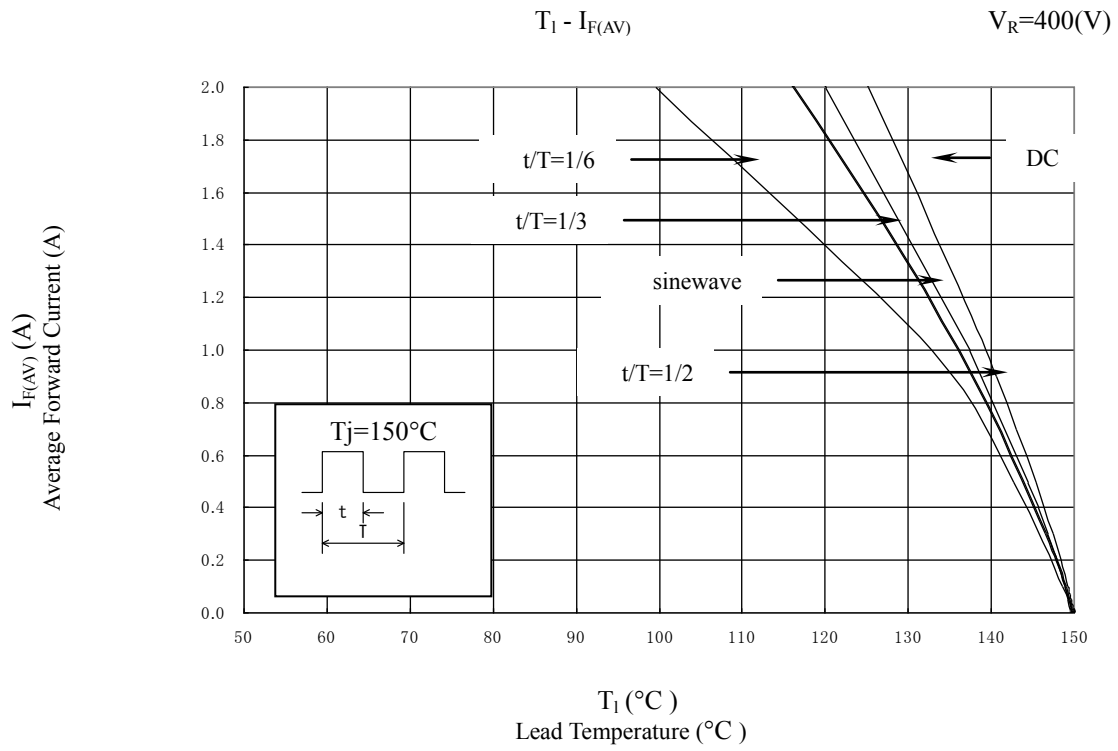
| No. | Item | Symbol | Unit | Rating | Conditions |
|-----|--------------------------------|-------------|----------------------|----------|-------------------------------------|
| 1 | Transient Peak Reverse Voltage | V_{RSM} | V | 400 | |
| 2 | Peak Reverse Voltage | V_{RM} | V | 400 | |
| 3 | Average 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 |

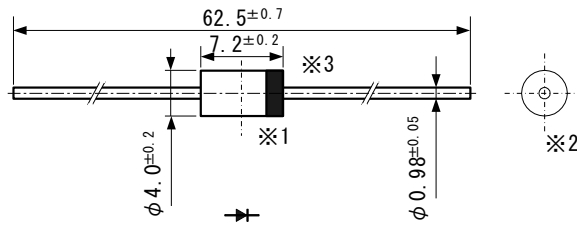
5. Characteristics





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

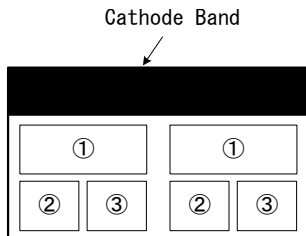
Dimensions in mm

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.