1. Scope

The present specifications shall apply to an RL4Z.

2. Outline

Type	Silicon Diode
Structure	Resin Molded
Applications	High Frequency Rectification

3. Flammability

UL94V-0(Equivalent)

4. Absolute maximum ratings

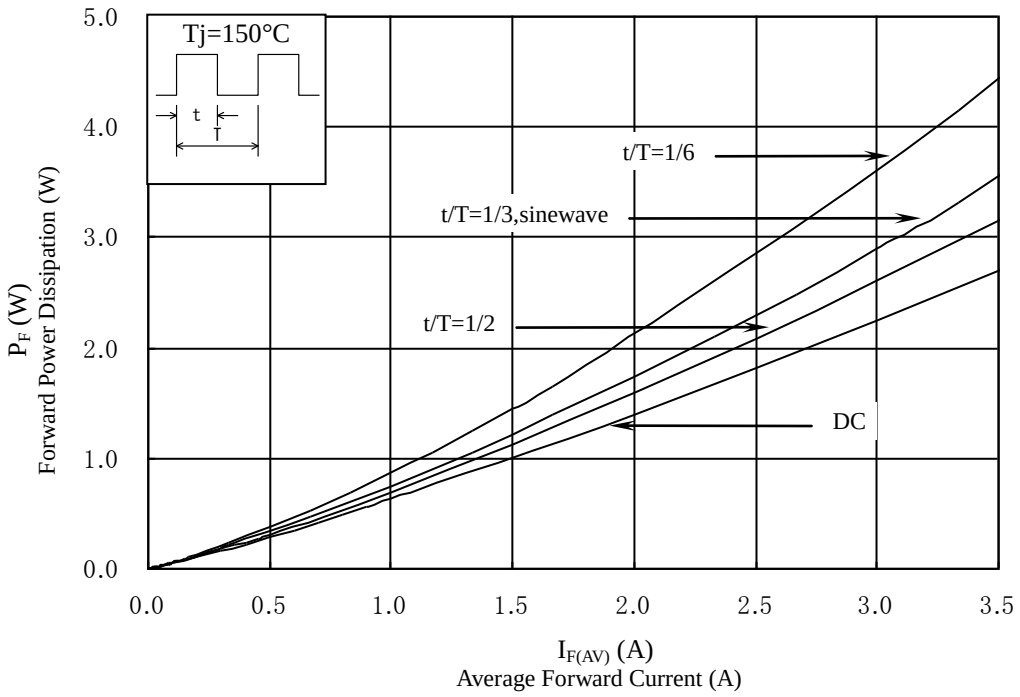
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	200	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	3.5	Refer to Derating of 7
4	Peak Surge Forward Current	I_{FSM}	A	80	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	32	1msec≤t≤10msec
6	Junction Temperature	T_j	°C	-40~+150	
7	Storage Temperature	T_{stg}	°C	-40~+150	

5. Electrical characteristics

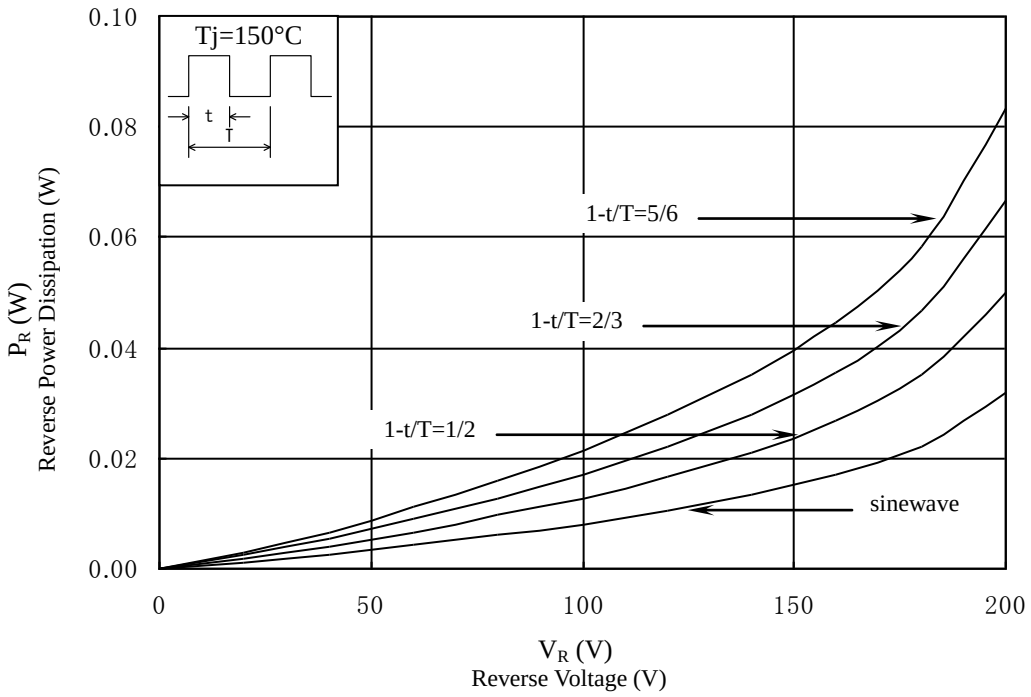
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.95 max.	I_F=3.5A
2	Reverse Leakage Current	I_R	uA	150 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	uA	500 max.	$V_R=V_{RM}$, T_j=150°C
4	Reverse Recovery Time	trr-1	ns	50 max.	$I_F=I_{RP}$=500mA 90% Recovery point, T_j=25°C
		trr-2	ns	35 max.	I_F=500mA, I_{RP}=1A 75% Recovery point, T_j=25°C
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	8.0 max.	Between Junction and Lead

6. Characteristics

$I_{F(AV)}$ – P_F



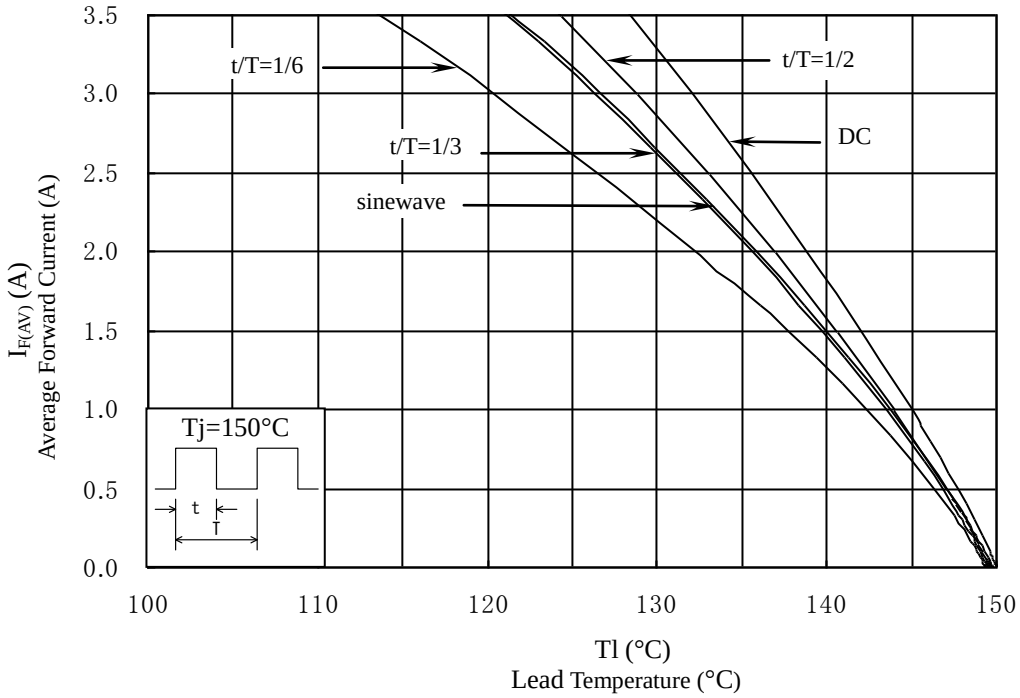
V_R – P_R



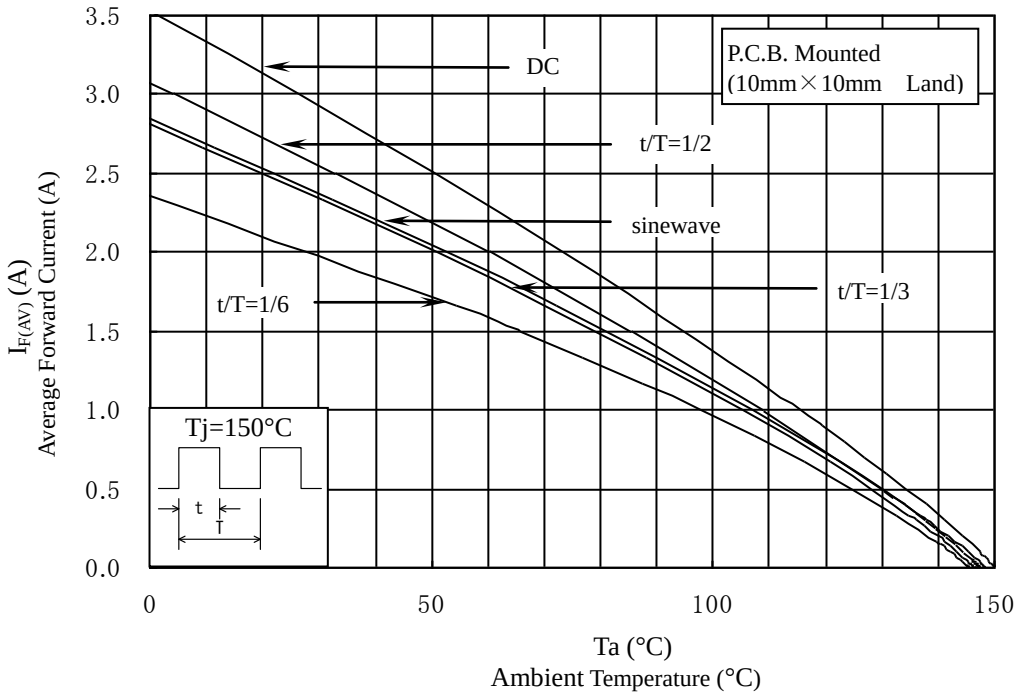
7.

Derating

Tl – $I_{F(AV)}$ V_R=200(V)

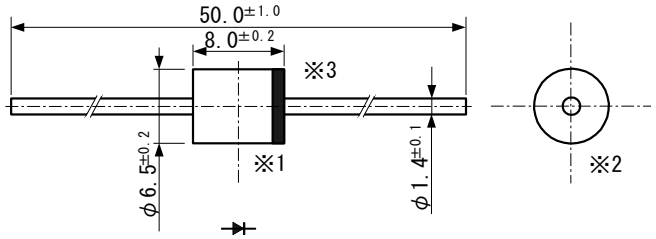


Ta – $I_{F(AV)}$ V_R=200(V)



8. Package information

8-1 Package type, physical dimensions and material



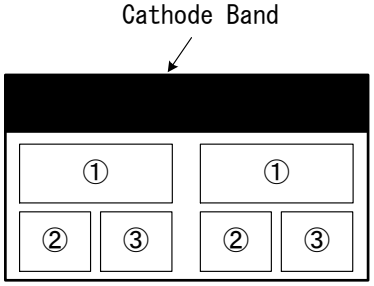
*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
*2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
*3 The burr may exit up to 2mm from the body of lead

Dimensions in mm

8-2 Appearance

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

8-3 Marking



① Type number RL4Z

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