

1. Scope

The present specifications shall apply to an EL02Z .

2. Outline

Type	Silicon Diode (Planar type)
Structure	Resin Molded Flammability : UL94V-0 (Equivalent)
Applications	High Frequency Rectification

3. Absolute maximum ratings

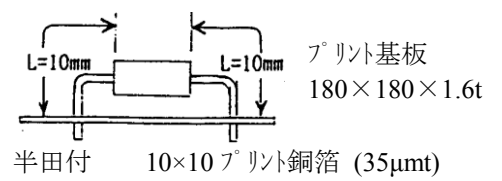
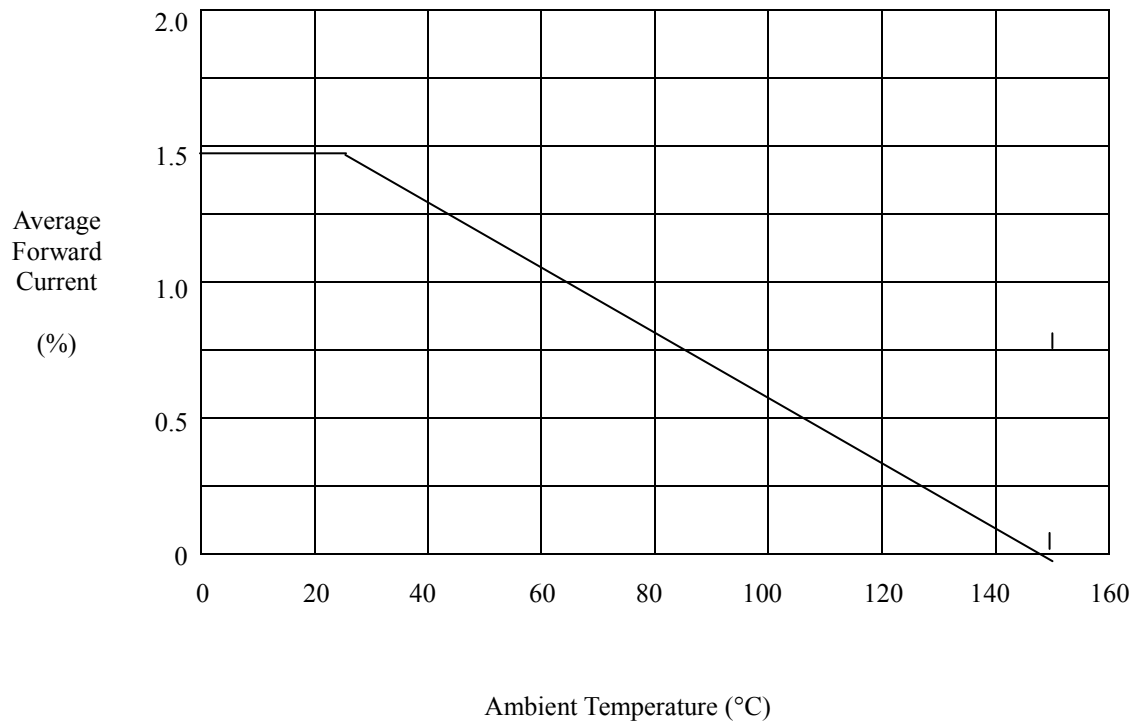
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	200	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	1.5	Refer to Derating of 5
4	Peak Surge Forward Current	I_{FSM}	A	25	10msec. Sinewave 10ms. one shot
5	I^2t Limiting Value	I^2t	A^2s	3.1	1msec $\leq t \leq$ 10msec
6	Junction Temperature	T_j	$^{\circ}C$	-40~+150	
7	Storage Temperature	T_{stg}	$^{\circ}C$	-40~+150	

4. Electrical characteristics

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=1.5A$
2	Reverse Leakage Current	I_R	μA	50 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	100 max.	$V_R=V_{RM}, T_j=100^{\circ}C$
4	Reverse Recovery Time	trr-1	ns	40 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^{\circ}C$
		trr-2	ns	30 max.	$I_F=100mA, I_{RP}=200mA$ 75% Recovery point, $T_j=25^{\circ}C$
5	Thermal Resistance	θ_{j-1}	$^{\circ}C/W$	20 max.	Between Junction and Lead

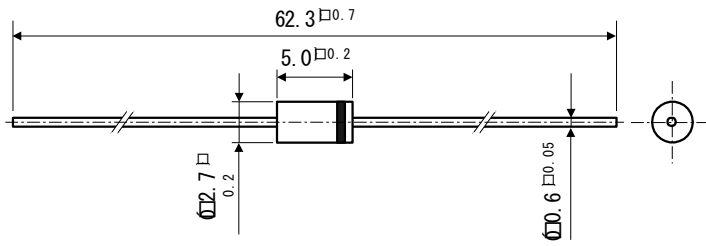
5. Derating

Deratings to the ambient temperature
 Power loss generated by voltage is not taken into consideration.



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 0.2mm(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 EL02Z is abbreviated as ^{L0}_{2Z}
- 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

