

## 1. Scope

The present specifications shall apply to an EL1.

## 2. Outline

Type	Silicon Diode
Structure	Resin Molded Flammability : UL94V-0 (Equivalent)
Applications	Pulse Rectification, etc.

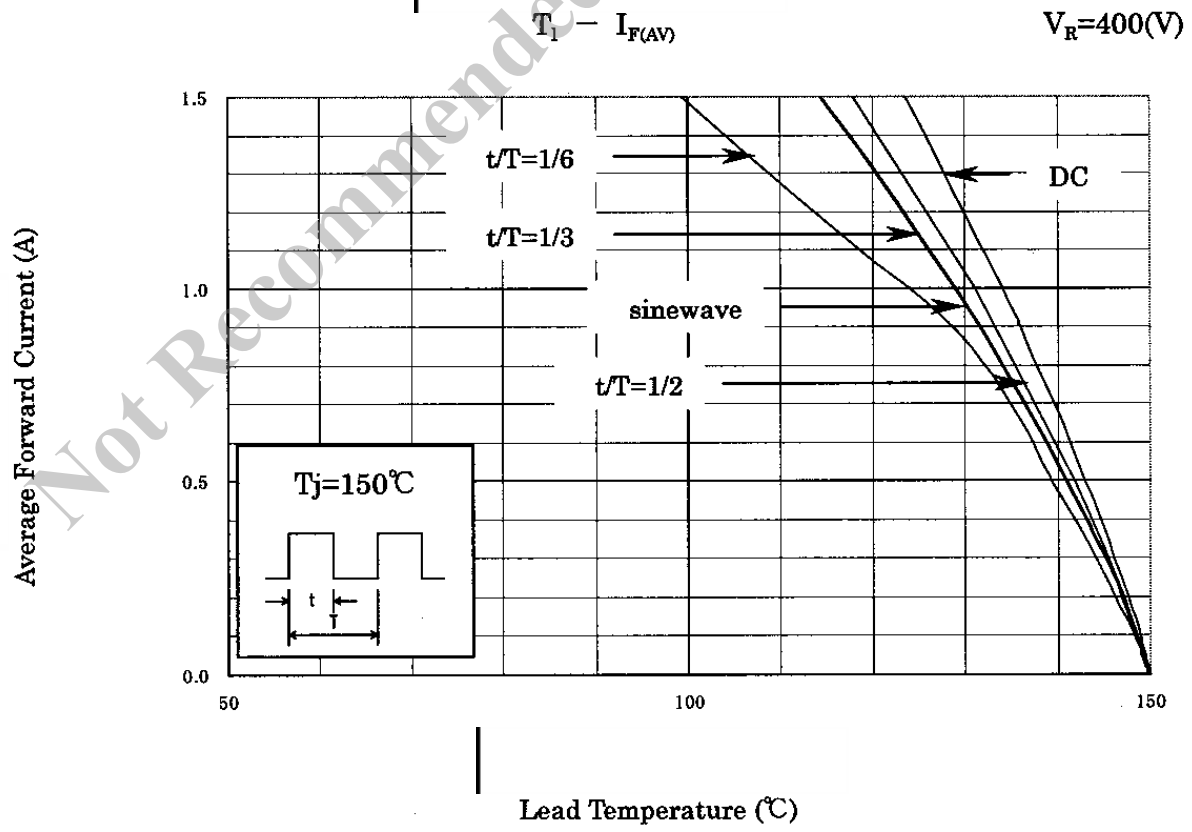
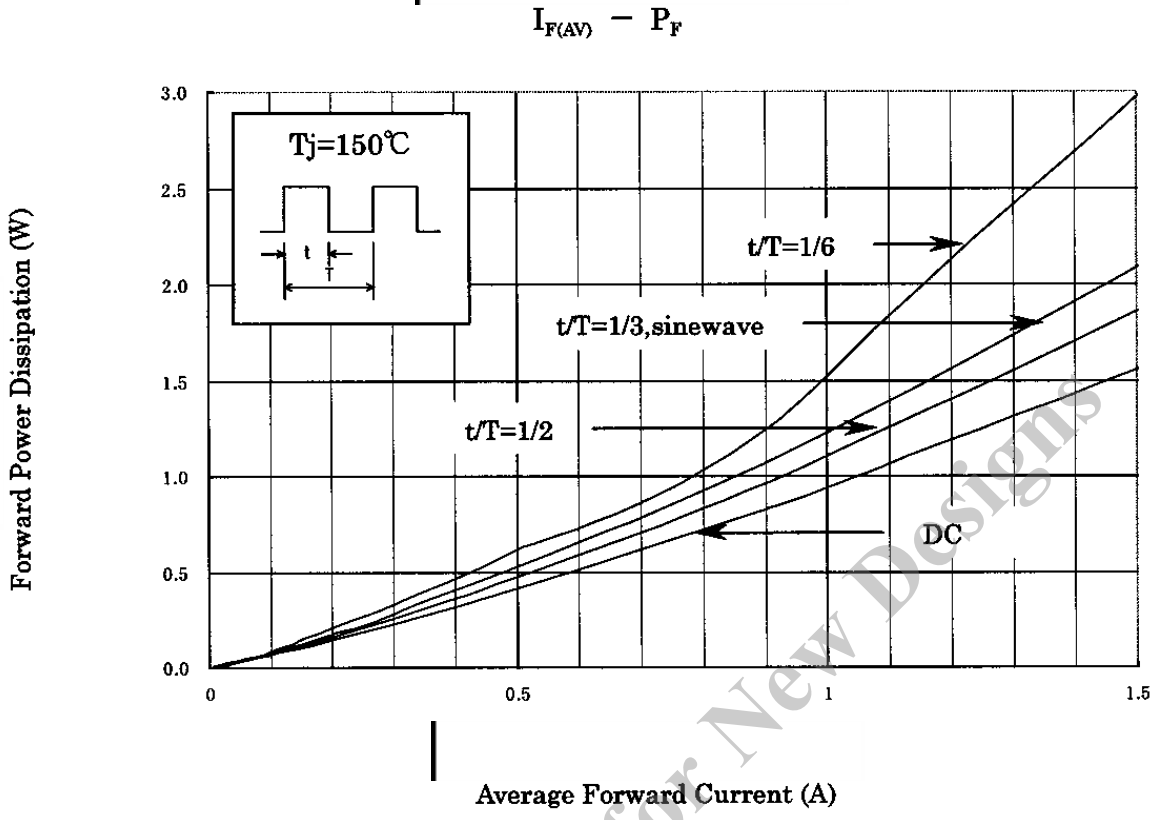
## 3. Absolute maximum ratings

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	1.5	$T_c=114^{\circ}\text{C}$ , sinewave
4	Peak Surge Forward Current	$I_{FSM}$	A	40	10msec. Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$\text{A}^2\text{s}$	8	
6	Junction Temperature	$T_j$	$^{\circ}\text{C}$	-40~+150	
7	Storage Temperature	$T_{stg}$	$^{\circ}\text{C}$	-40~+150	

## 4. Electrical characteristics

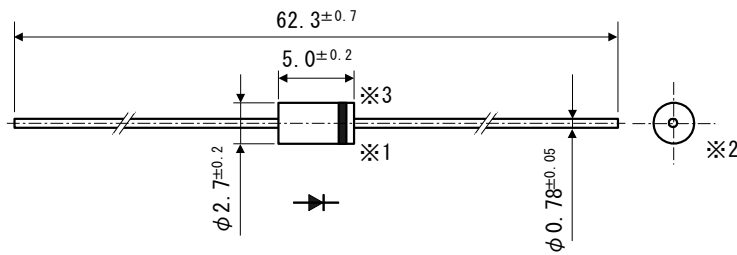
No	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	1.3 max.	$I_F=1.5\text{A}$
2	Reverse Leakage Current	$I_R$	$\mu\text{A}$	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	$\mu\text{A}$	50 max.	$V_R=V_{RM}$ , $T_j=150^{\circ}\text{C}$
4	Reverse Recovery Time	$trr1$	nsec	50 max.	$I_F=I_{RP}=100\text{mA}$ , 90% Recovery point, $T_j=25^{\circ}\text{C}$
		$trr2$	nsec	35 max.	$I_F=100\text{mA}$ , $I_{RP}=200\text{mA}$ , 75% Recovery point, $T_j=25^{\circ}\text{C}$
5	Thermal Resistance	$R_{th(j-l)}$	$^{\circ}\text{C}/\text{W}$	17 max.	Between Junction and Lead

5. Characteristics



## 6. Packing information

## 6-1 Packing type



- \*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

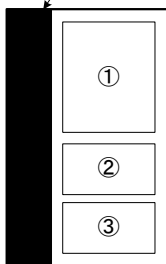
Dimensions in mm

## 6-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.  
The color of the case will be black.

## 6-3 Marking

Cathode Band



- ① Type number : EL1 is abbreviated as L1
- 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 Silver.