

## 1. Scope

The present specifications shall apply to Sanken silicon diode, EG01.

## 2. Outline

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

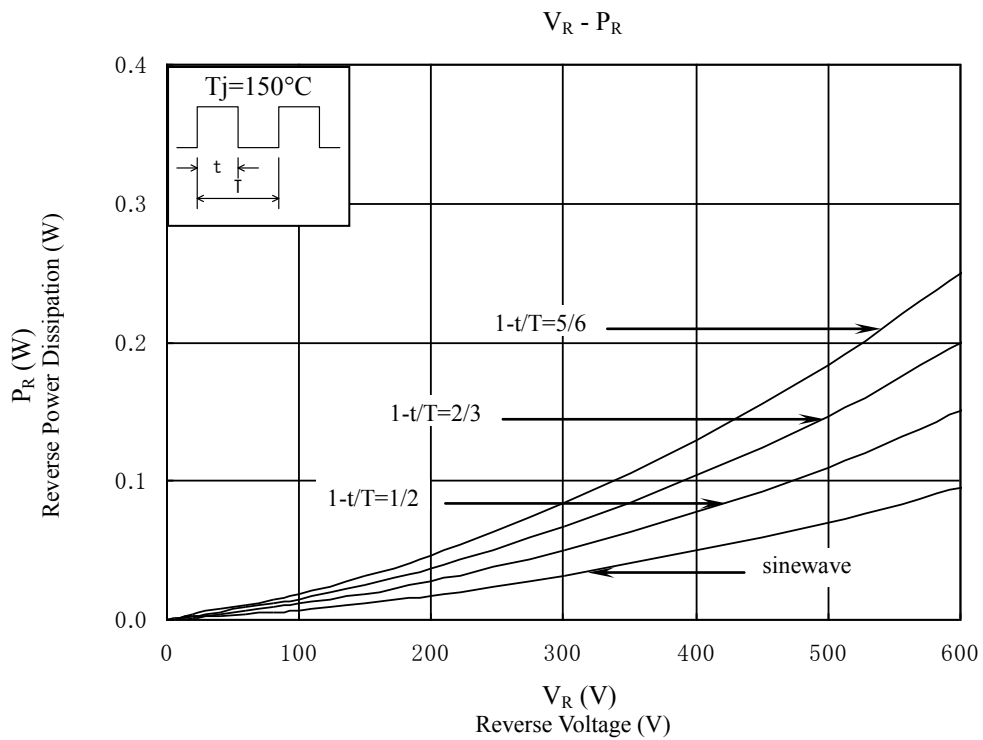
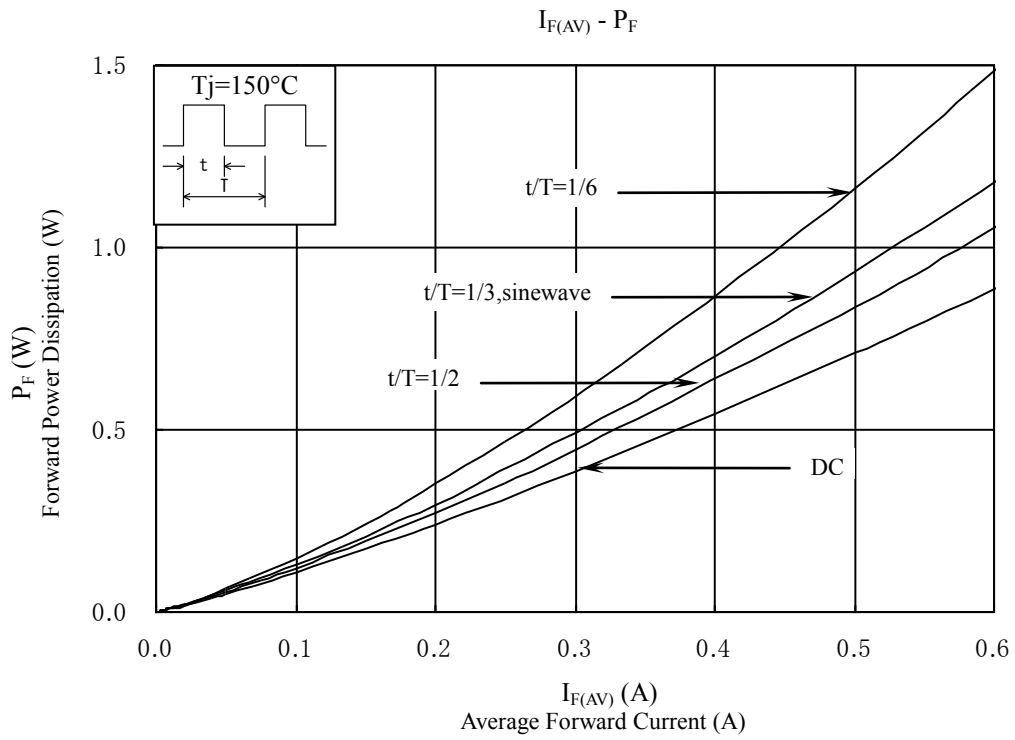
## 3. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	600	
2	Peak Reverse Voltage	$V_{RM}$	V	600	
3	Average Forward Current	$I_{F(AV)}$	A	0.6	Refer to Derating of 6
4	Peak Surge Forward Current	$I_{FSM}$	A	10	10msec. Half sinewave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	0.5	$1msec \leq t \leq 10msec$
6	Junction Temperature	$T_j$	$^{\circ}C$	-40~+150	
7	Storage Temperature	$T_{stg}$	$^{\circ}C$	-40~+150	

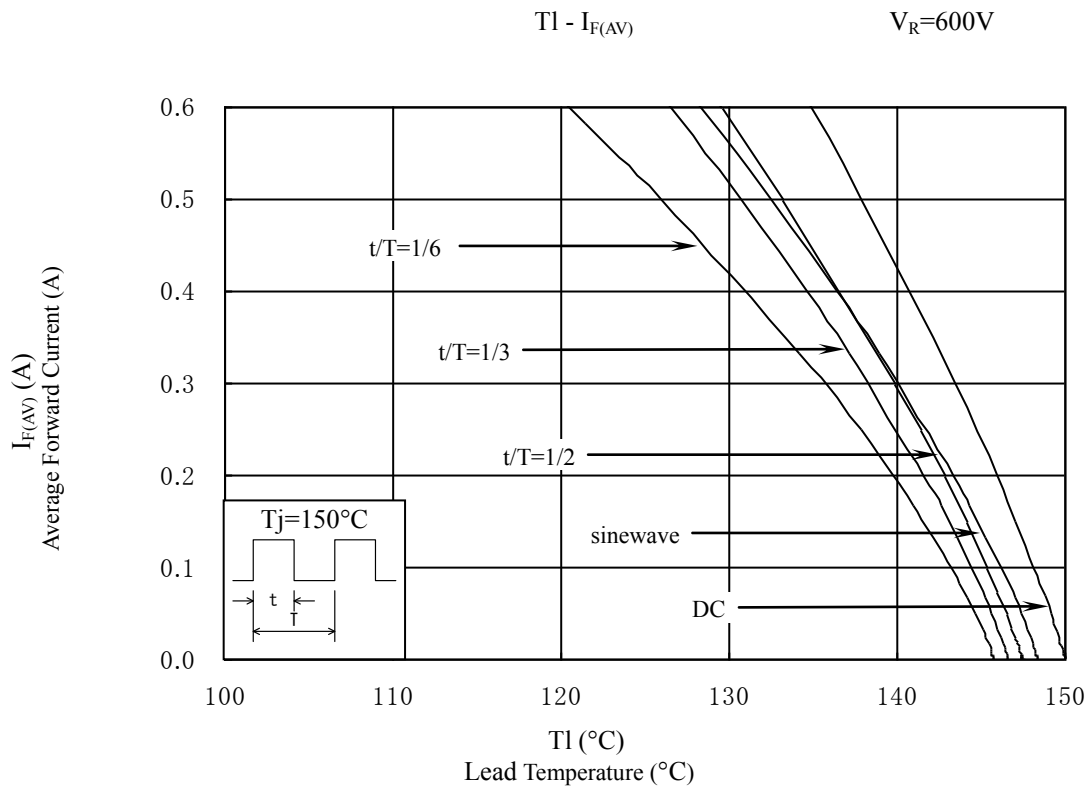
## 4. Electrical characteristics (Ta=25°C, unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	2.0 max.	$I_F=0.6A$
2	Reverse Leakage Current	$I_R$	$\mu A$	100 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	$\mu A$	500 max.	$V_R=V_{RM}, T_j=100^{\circ}C$
4	Reverse Recovery Time	trr-1	ns	100 max.	$I_F=I_{RP}=100mA$ 90% Recovery point, $T_j=25^{\circ}C$
		trr-2	ns	50 max.	$I_F=100mA, I_{RP}=200mA$ 75% Recovery point, $T_j=25^{\circ}C$
5	Thermal Resistance	$R_{th(j-l)}$	$^{\circ}C/W$	17 max.	Between Junction and Lead

5.Characteristics

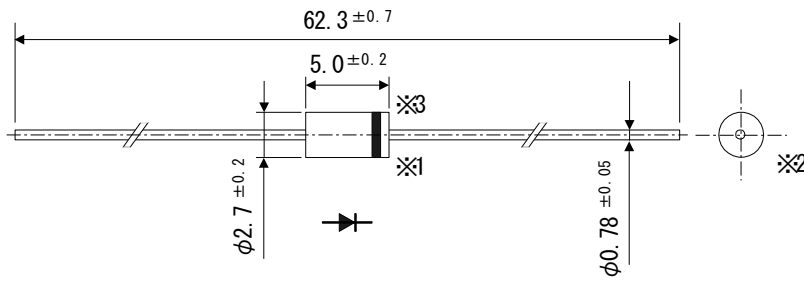


6. Derating



7. Package information

7-1 Package type, physical dimensions and material



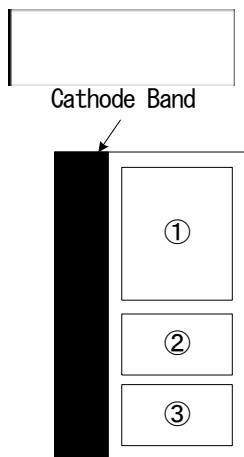
- \*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- \*2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)
- \*3 The burr may exit up to 2mm from the body of lead

Dimensions in mm

7-2 Appearance

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

7-3 Marking



- ① Type number EG1Z is abbreviated as  $G_A^1$
- 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