

1 Scope

The present specifications shall apply to Sanken silicon diode, RM10Z.

2 Outline

Type	Silicon Rectifier Diode (Mesa type)	
Structure	Resin Molded	Flammability : UL94V-0 (Equivalent)
Applications	Commercial Frequency Rectification, etc.	

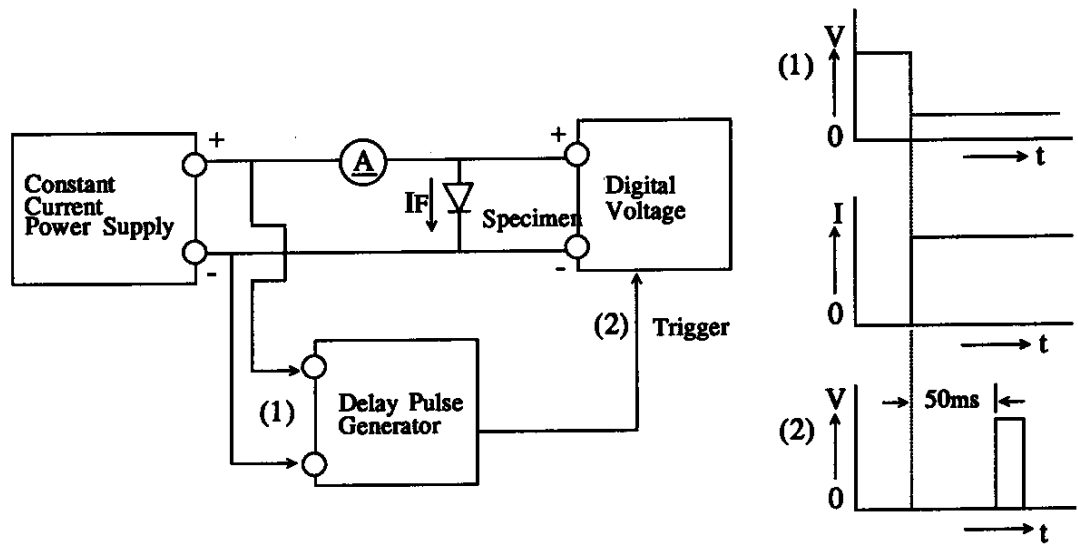
3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	250	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	1.5	Refer to derating curve in Section 6
4	Peak Surge Forward Current	I_{FSM}	A	120	10ms. Half sine wave, one shot
5	Junction Temperature	T_j	°C	-40 to +150	
6	Storage Temperature	T_{stg}	°C	-40 to +150	

4 Electrical characteristics ($T_a=25^{\circ}\text{C}$, unless otherwise specified)

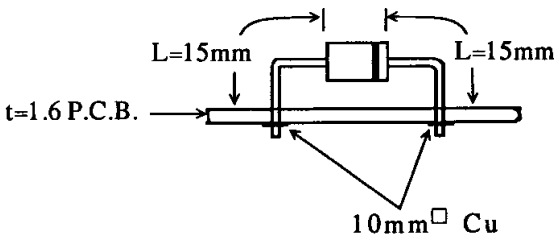
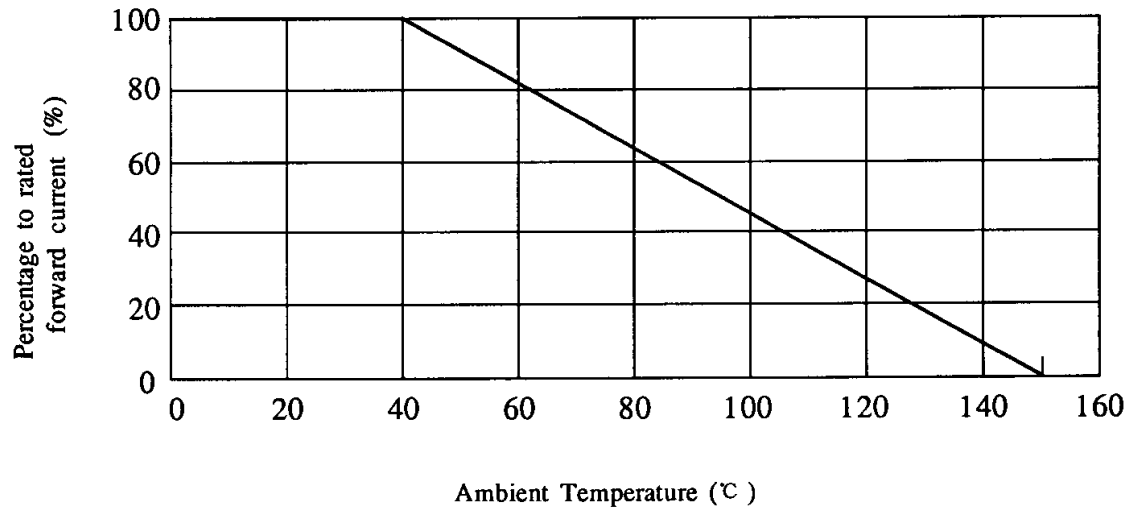
No.	Item	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.91 max.	$I_F=1.5\text{A}$
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	50 max.	$V_R=V_{RM}$, $T_j=100^{\circ}\text{C}$
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	15 max.	Between Junction and Lead

5 順方向電圧降下測定方法および測定回路
V_F test and test circuit



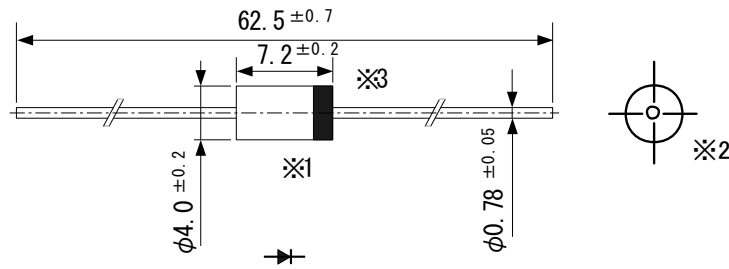
6 Derating

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



7 Package information

7-1 Package type, physical dimensions and material



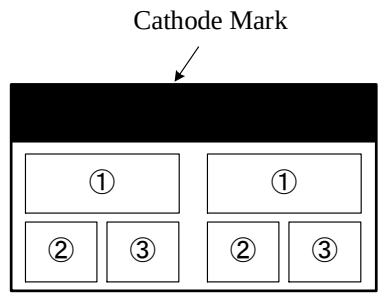
Dimensions in mm

- *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

7-2 Appearance

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

7-3 Marking



The color of marking must be white.

- ① Type number : RM10Z
- 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