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 (Ta=25°C, unless otherwise specified)

No.	Item	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.91 max.	I_F=1.5A
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°C
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	15 max.	Between Junction and Lead

040722

61426-01

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
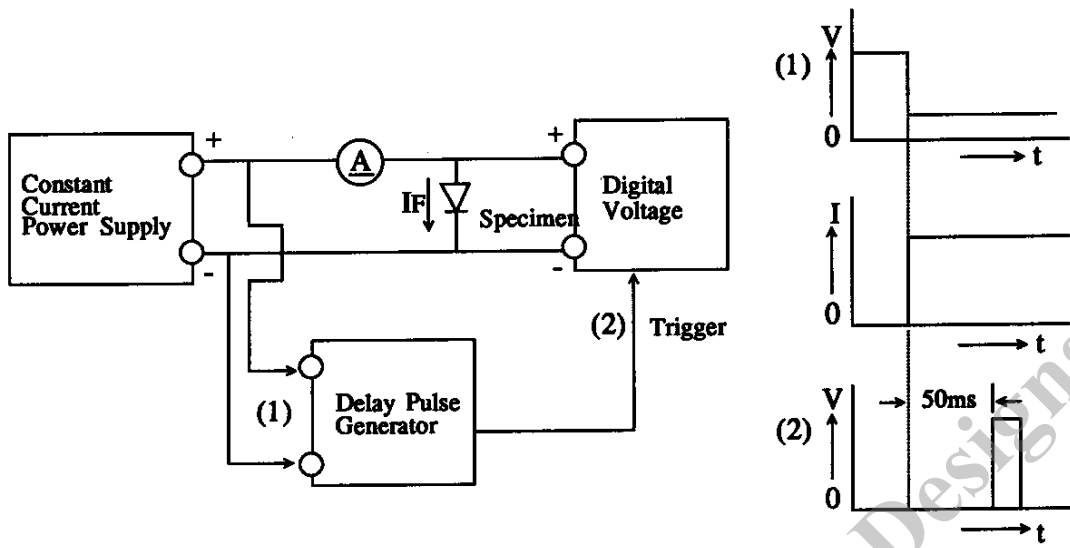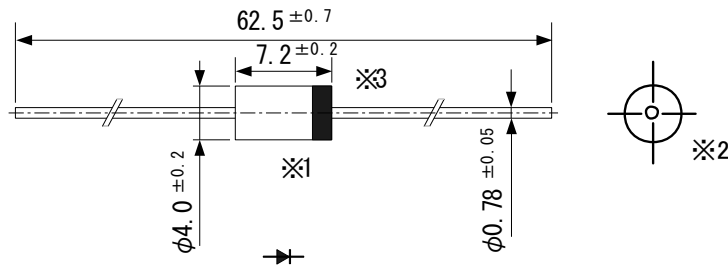

6 Derating

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

Ambient Temperature (℃)

61426-01
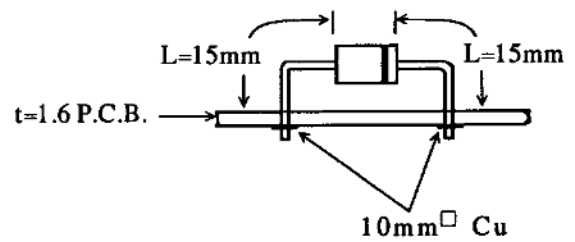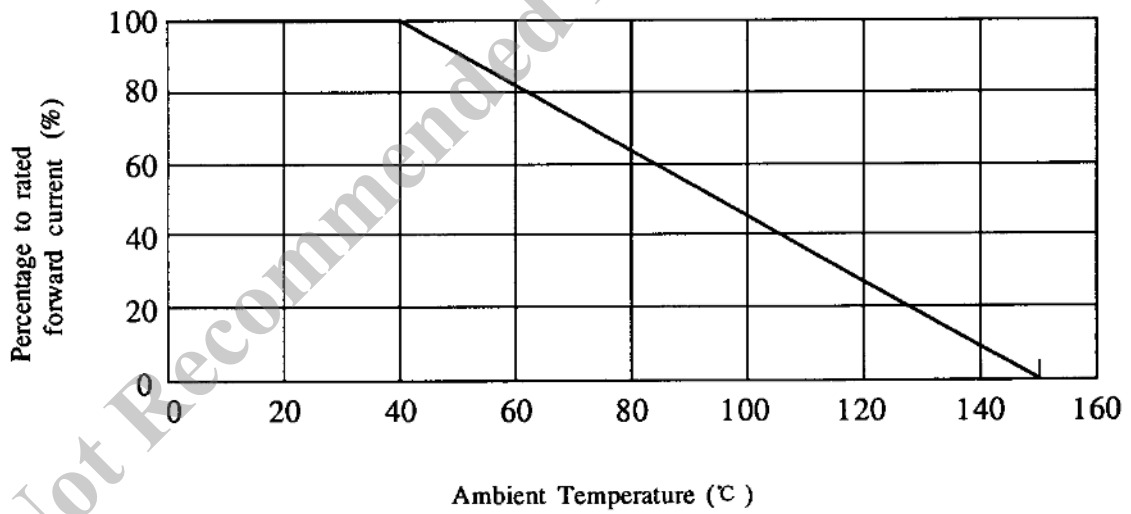
7 Package information

  7-1 Package type, physical dimensions and material

62. 5 $^{\pm 0.7}$

7. 2 $^{\pm 0.2}$

※3

※1

$\phi 4.0$ $^{\pm 0.2}$

$\phi 0.78$ $^{\pm 0.05}$

※2

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

Cathode Mark

①		①	
②	③	②	③

The color of marking must be white.
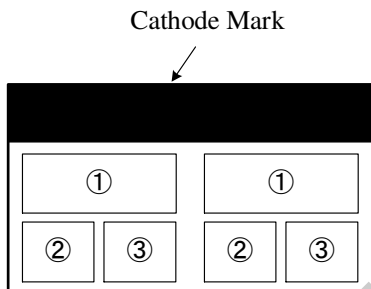
① Type number：RM10Z
② Lot number 1
    First digit: Last digit of Year
    Second digit: Month
        From 1 to 9 for Jan. to Sep.
        O for Oct., N for Nov., and D for Dec.
③ Lot number 2 (ten days)
    ・   Top of the month
    ・・   Middle of month
    ・・・   End of month

61426-01