

1 Scope

The present specifications shall apply to Sanken silicon diode, EM01A.

2 Outline

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

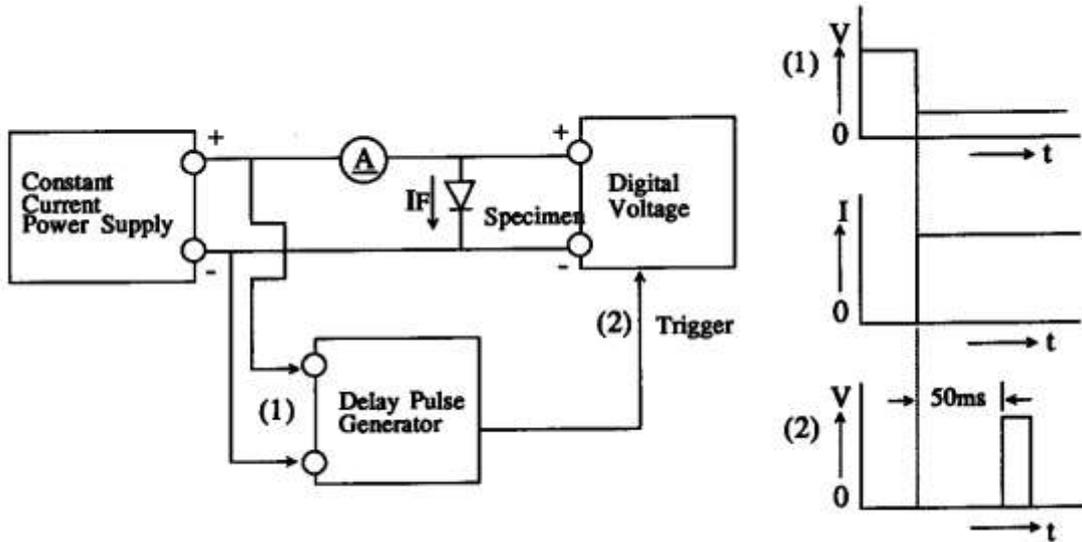
3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	650	
2	Peak Reverse Voltage	V_{RM}	V	600	
3	Average Forward Current	$I_{F(AV)}$	A	1.0	Refer to Derating curve in Section 6
4	Peak Surge Forward Current	I_{FSM}	A	45	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)

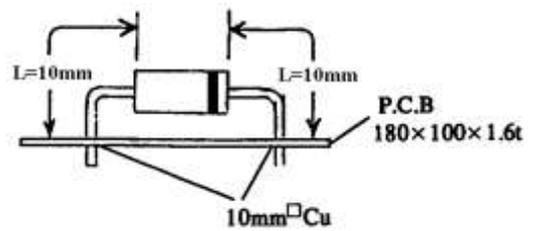
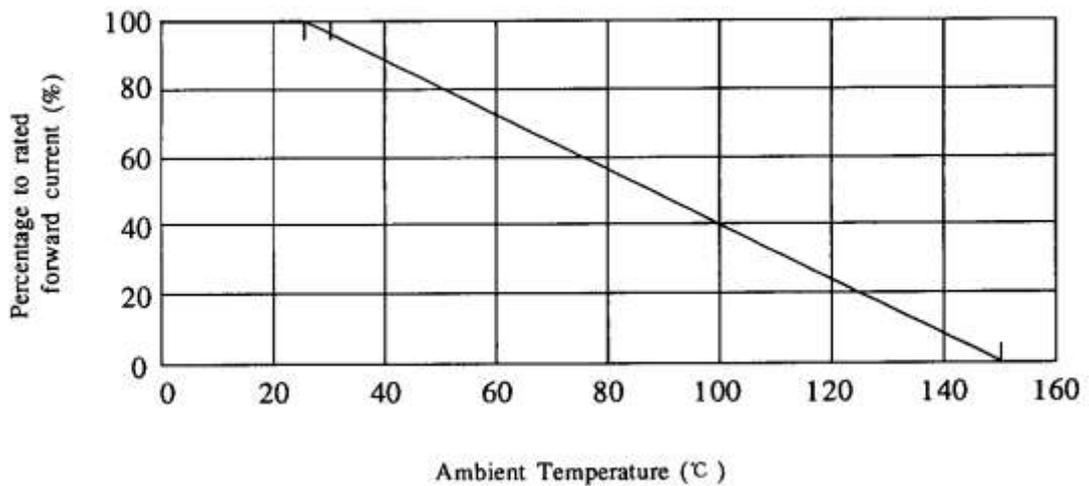
No.	Item	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.97 max.	$I_F=1.0\text{A}$
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	50 max.	$V_R=V_{RM}$, $T_a=100^\circ\text{C}$
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	20 max.	Between Junction and Lead

5 V_F test and test circuit



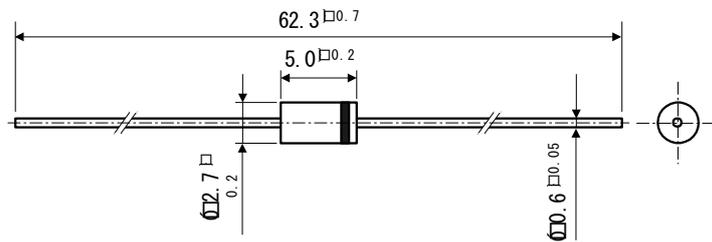
6 Derating

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



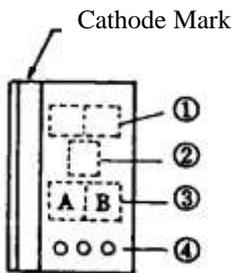
Dimensions in mm

- ※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 0.2mm(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



- ① Type number M0 as abbreviated of EM01A
- ② Class number : A
- ③ Lot number
 - A : Last digit of calendar year
 - B : Month (From 1 to 9 for Jan. to Sep. O for Oct. N for Nov. D for Dec.)
- ④ Ten days (· first ten days, · · second ten days, ... third ten days)

The type No. V_{RM} rank and Lot No. are to be marked in white.