1 Scope

The present specifications shall apply to Sanken silicon diode, RM4Y.

2 Outline

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

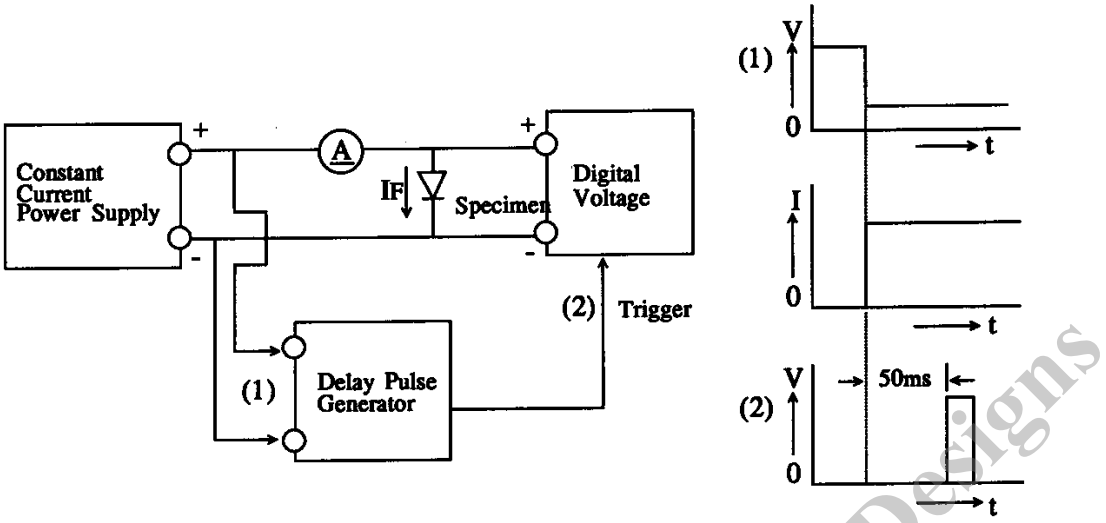
3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	150	
2	Peak Reverse Voltage	V_{RM}	V	100	
3	Average Forward Current	$I_{F(AV)}$	A	3.0	Refer to derating curve in Section 6
4	Peak Surge Forward Current	I_{FSM}	A	200	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)

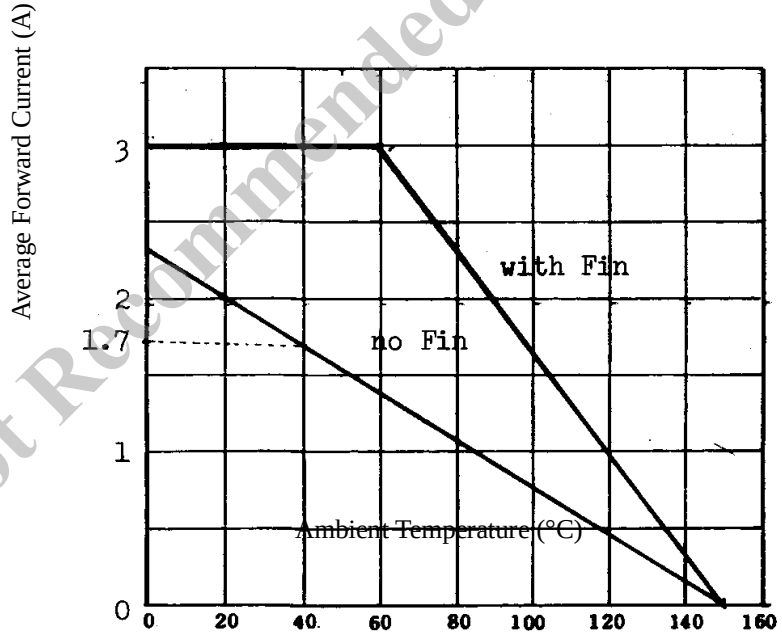
No.	Item	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	V_F	V	0.95 max.	I_F=3.0A
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	H･I_R	μA	50 max.	$V_R=V_{RM}$, T_j=150°C
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	8.0 max.	Between Junction and Lead

5 V_F test and test circuit

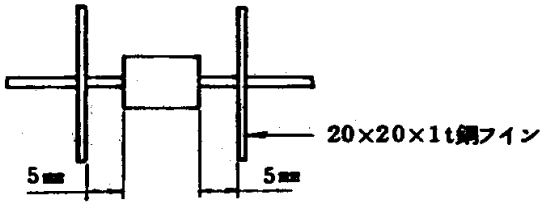


6 Derating

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

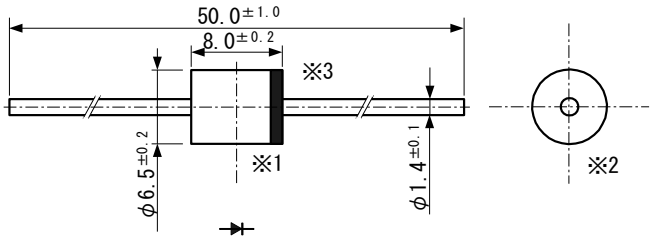


Copper fin 20×20×1t



7 Dimensions, inner structure and marking

7-1 Dimensions refer



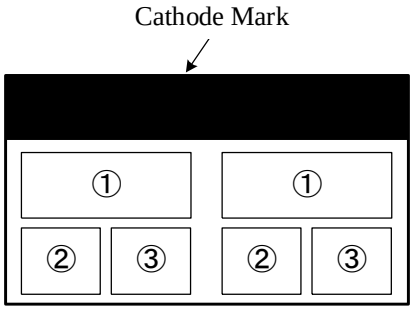
Dimensions in mm

*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 exist 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.
The color of the case will be black.

7-3 Marking



① Type number RM4Y
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 color of marking must be white