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

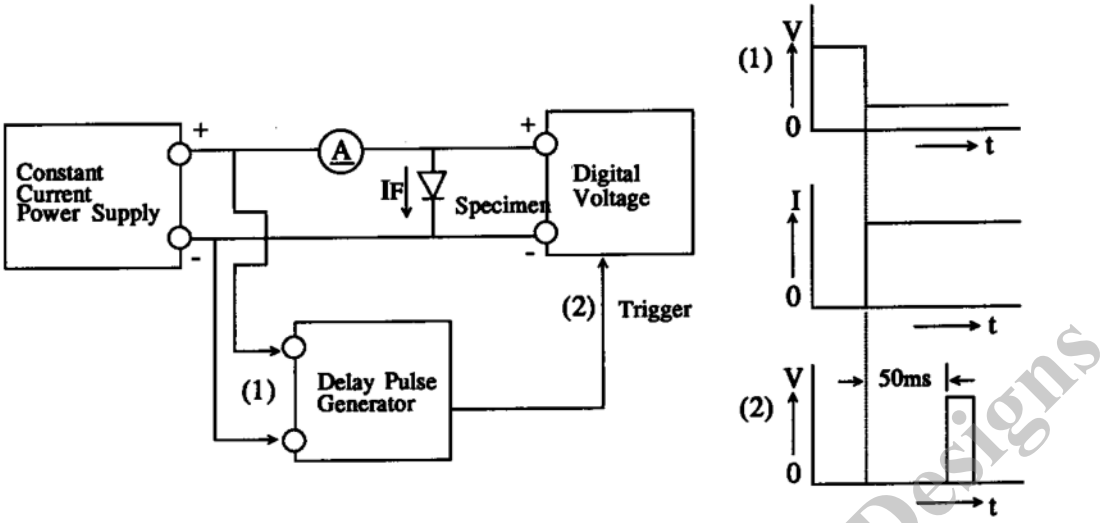
| No. | Item | Symbol | Unit | Rating | Conditions |
|---|---|---|---|---|---|
| 1 | Transient Peak Reverse Voltage | $V_{RSM}$ | V | 150 | |
| 2 | Peak Reverse Voltage | $V_{RM}$ | V | 100 | |
| 3 | Average Forward Current | $I_{F(AV)}$ | A | 3.0 | Refer to derating curve in Section 6 |
| 4 | Peak Surge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

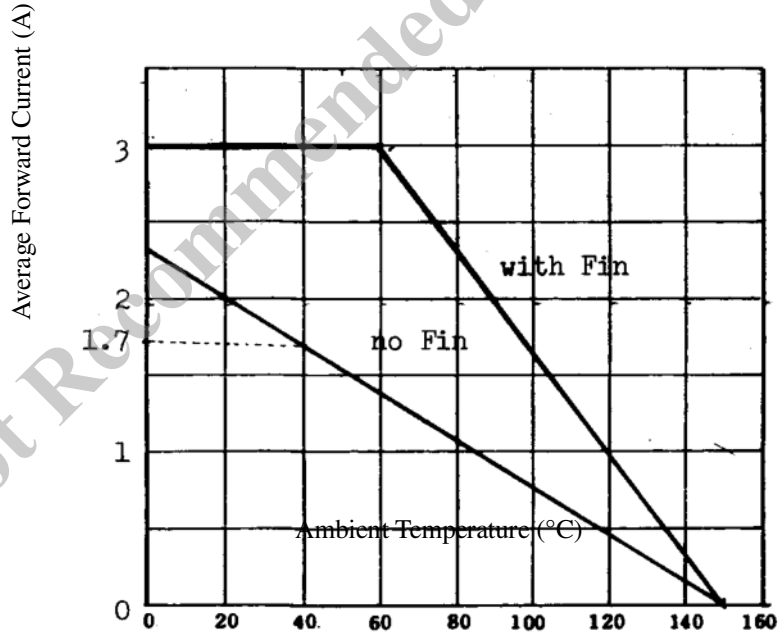
Not Recommended for New Designs

5 $V_F$ test and test circuit

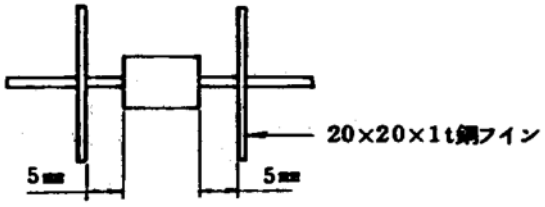



6 Derating

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



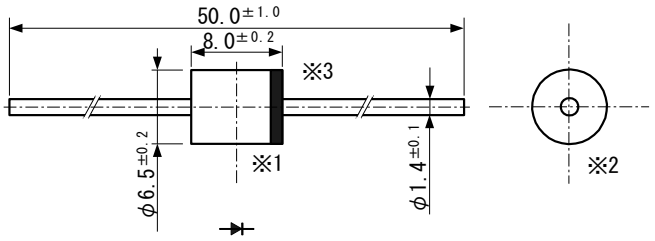

Copper fin 20×20×1t




Not Recommended for New Designs

7 Dimensions, inner structure and marking

7-1 Dimensions refer



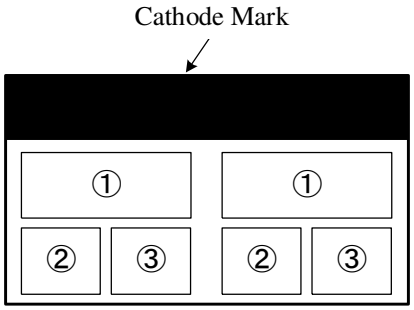

Dimensions in mm

*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

Not Recommended for New Designs