

## 1 Scope

The present specifications shall apply to an RM1.

## 2 Outline

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

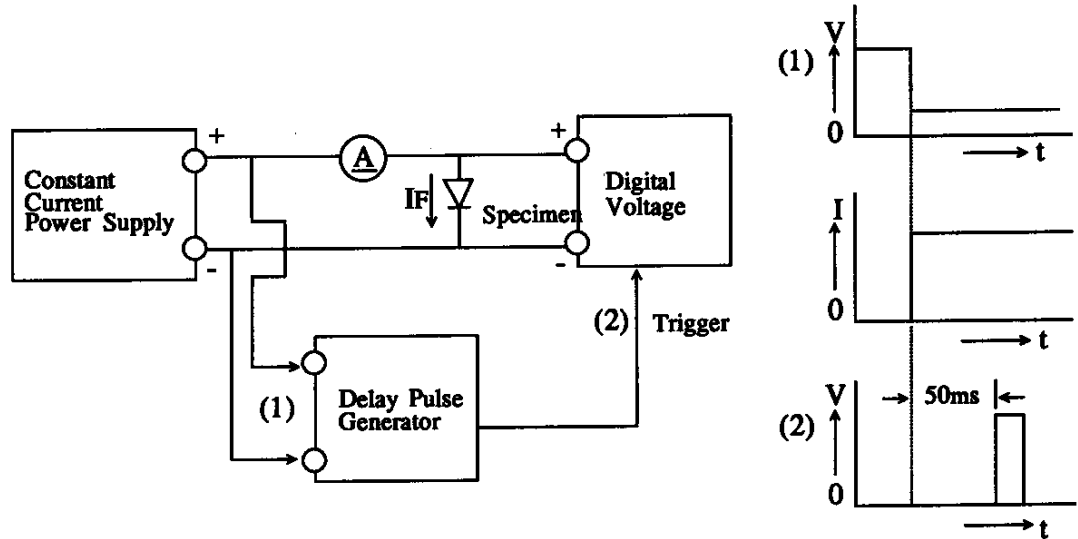
## 3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	400	
2	Peak Reverse Voltage	$V_{RM}$	V	400	
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	50	10ms. Half sine wave, one shot
5	$I^2t$ Limiting Value	$I^2t$	$A^2s$	12.5	$1ms \leq t \leq 10ms$
6	Junction Temperature	$T_j$	°C	-40 to +150	
7	Storage Temperature	$T_{stg}$	°C	-40 to +150	

## 4 Electrical characteristics (Ta=25°C, unless otherwise specified)

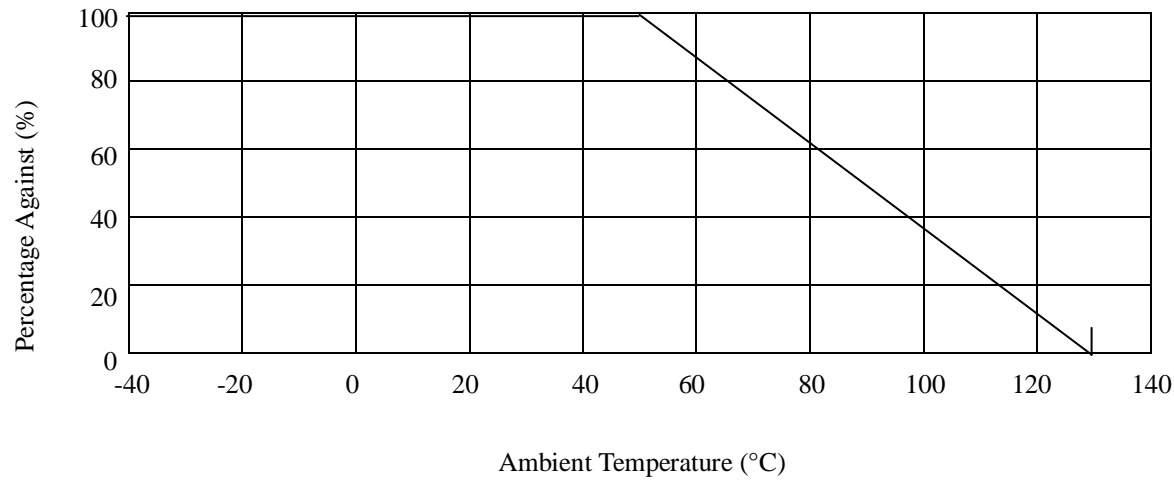
No.	Item	Symbol	Unit	Rating	Conditions
1	Forward Voltage Drop	$V_F$	V	0.95 max.	$I_F=1.0A$
2	Reverse Leakage Current	$I_R$	μA	5 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	50 max.	$V_R=V_{RM}$ , $T_j=100^\circ C$
4	Thermal Resistance	$R_{th(j-l)}$	°C/W	15 max.	Between Junction and Lead

5.  $V_F$  test and test circuit



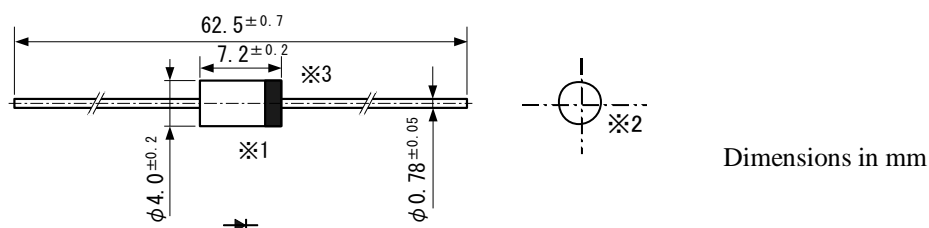
6. Derating

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



## 7. Dimensions, inner structure and marking

## 7.1 Dimensions refer



\*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



①Polarity marking (Cathode band)

②Type marking : 2 set marking Ex.) RM1 RM1

③Lot No. marking : 2 set marking Ex.) 48... 48...

4: Year (Last digit of calendar year)

8 : Month (From 1 to 9 for Jan. to sep.,)

O for Oct., N for Nov., and D for Dec.

Ten days (· : First ten days

·· : Second ten days

... : Third ten days)

The color of marking must be white.

The marking on the case of a part, which is printed in two positions, should be legible in either of the two at least.