

## 1. Scope

The present specifications shall apply to Sanken silicon diode, RU3AM.

## 2. Outline

Type	Silicon Diode (Mesa Type)
Structure	Resin Molded
Applications	Pulse Rectification , etc.

## 3. Flammability

UL94V-0 (Equivalent)

## 4. Absolute maximum ratings

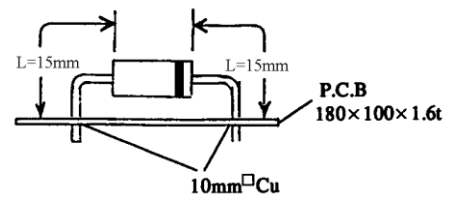
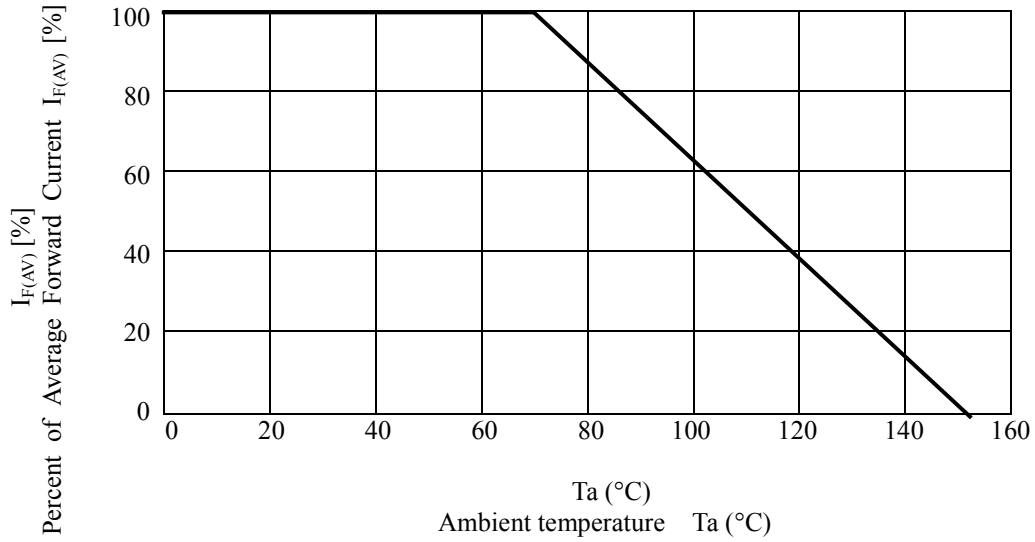
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	$V_{RSM}$	V	650	
2	Peak Reverse Voltage	$V_{RM}$	V	600	
3	Average Forward Current	$I_{F(AV)}$	A	1.5	Refer to Derating of 6
4	Peak Surge Forward Current	$I_{FSM}$	A	50	10msec. Half sinewave, one shot
5	Junction Temperature	$T_j$	°C	-40~+150	
6	Storage Temperature	$T_{stg}$	°C	-40~+150	

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

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	$V_F$	V	1.1 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	350 max.	$V_R=V_{RM}, T_j=100^\circ C$
4	Reverse Recovery Time	Trr-1	μs	0.4 max.	$I_F=I_{RP}=10mA,$ $T_a=25^\circ C$ 90% Recovery point
		Trr-2	μs	0.18 max.	$I_F=100mA, I_{RP}=200mA,$ $T_a=25^\circ C$ 75% Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	12 max.	Between Junction and Lead

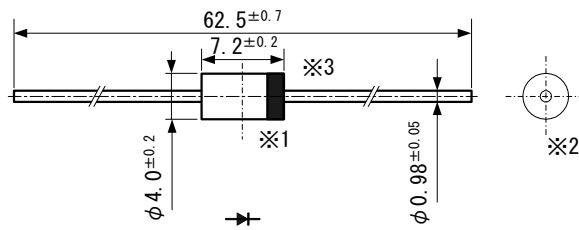
6. Derating

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



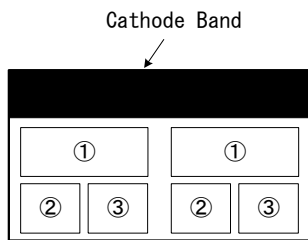
Dimensions in mm

- \*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 0.3mm(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



- ① RU3AM  
Type number RU3AM
- 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 Type number and Lot number are to be marked in red.