

1. Scope

The present specifications shall apply to Sanken silicon diode, RU3M.

2. Outline

Type	Silicon Diode (Mesa Type)
Structure	Resin Molded Flammability:UL94-V0(Equivalent)
Applications	Pulse Rectification , etc.

3. Absolute maximum ratings

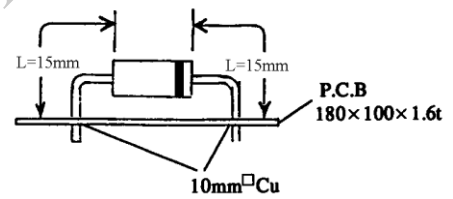
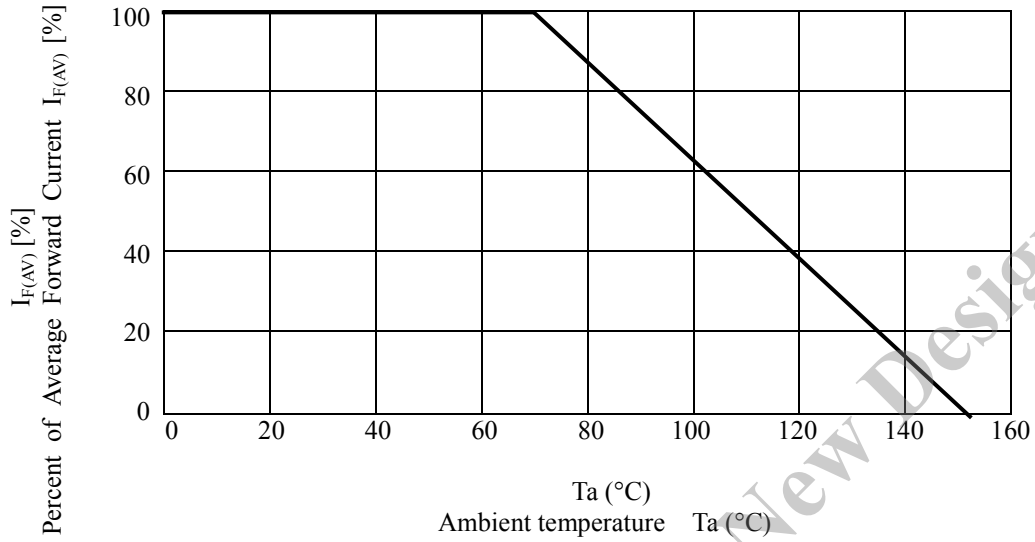
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	450	
2	Peak Reverse Voltage	V_{RM}	V	400	
3	Average Forward Current	$I_{F(AV)}$	A	1.5	Refer to Derating of 5
4	Peak Surge Forward Current	I_{FSM}	A	50	10msec. Half sinewave, one shot
5	Junction Temperature	T_j	°C	-40~+150	
6	Storage Temperature	T_{stg}	°C	-40~+150	

4. 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	T_{rr-1}	μs	0.4 max.	$I_F=I_{RP}=1^\circ C$ 0mA, $T_a=25^\circ C$ 90% Recovery point
		T_{rr-2}	μs	0.18 max.	$I_F=10mA, I_{RP}=20mA,$ $T_a=25^\circ C$ 75% Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	12 max.	Between Junction and Lead

5. Derating

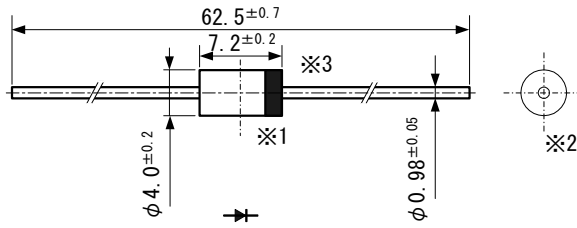
Derating to the ambient temperature.
 Power loss generated by voltage is not taken into consideration.



Not Recommended for New Designs

6. Package information

6-1 Package type, physical dimensions and material



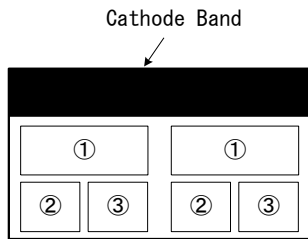
Dimensions in mm

- *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

6-2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

6-3 Marking



- ① Type number RU3M
- 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.