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	

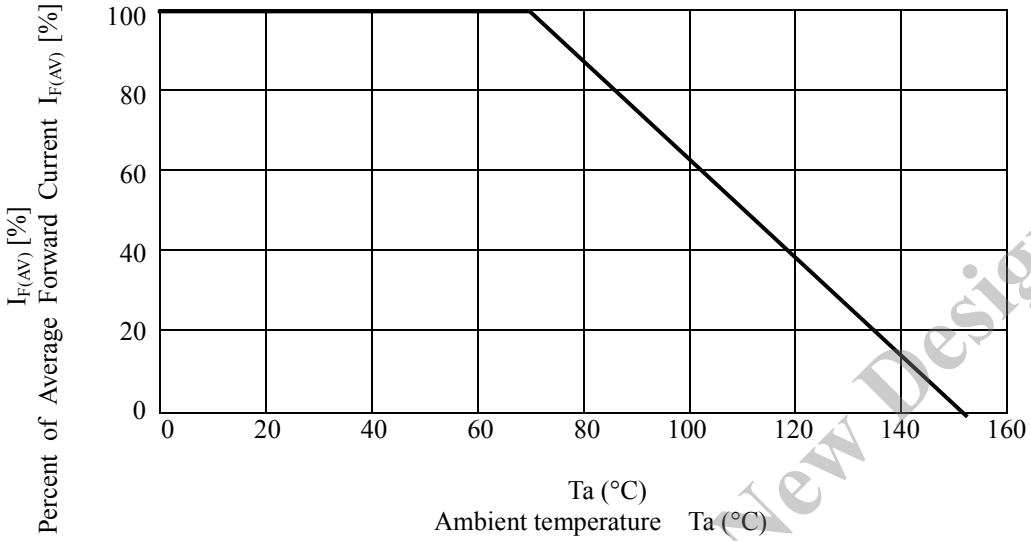
4. Electrical characteristics (Ta=25°C, unless otherwise specified)

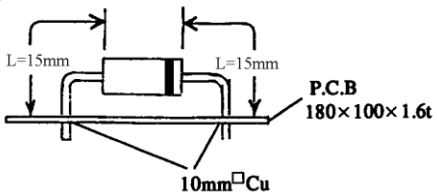
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.1 max.	I_F=1.5A
2	Reverse Leakage Current	I_R	μA	10 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	H・I_R	μA	350 max.	$V_R=V_{RM}$, T_j=100°C
4	Reverse Recovery Time	Trr-1	μs	0.4 max.	$I_F=I_{RP}$=1°C 0mA, Ta=25°C 90% Recovery point
		Trr-2	μs	0.18 max.	I_F=10mA, I_{RP}=20mA, Ta=25°C 75% Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	12 max.	Between Junction and Lead

Not Recommended for New Designs

5. Derating

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

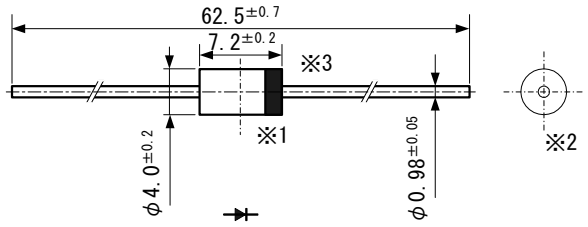




Not Recommended for New Designs

6. Package information

6-1 Package type, physical dimensions and material



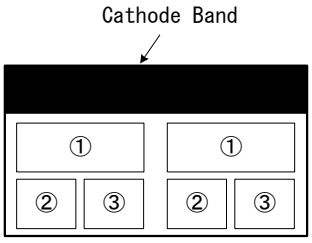
Dimensions in mm

*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.

Not Recommended for New Designs