1. Scope

The present specifications shall apply to a RU1A.

2. Outline

Туре	Silicon Diode	
Structure	Resin Molded	Flammability:UL94-V0(Equivalent)
Applications	High Frequency Rectification, etc.	

3. Absolute maximum ratings

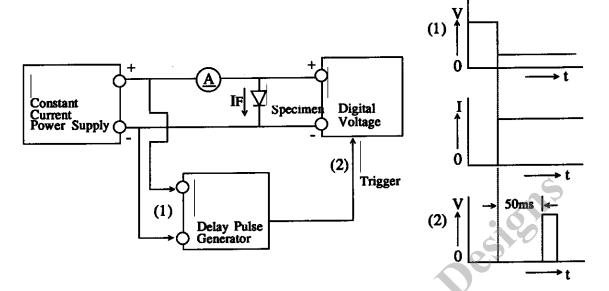
No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	650	
2	Peak Reverse Voltage	V_{RM}	V	600	
3	Average Forward Current	I _{F(AV)}	A	0.25	Refer to 6
4	Peak Surge Forward Current	I_{FSM}	A	15	10msec. Half sinewave, one shot
5	Junction Temperature	T_{j}	°C	-40~+150	
6	Storage 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	$V_{\rm F}$	V	2.5 max.	I _F =0.25A
2	Reverse Leakage Current	I_R	μΑ	10 max.	$V_R = V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μΑ	150 max.	$V_R=V_{RM}$, $T_j=100$ °C
4 Revers	Reverse Recovery Time	Trr-1	μs	0.4 max.	$I_F = I_{RP} = 10 \text{mA},$ $Ta = 25^{\circ}\text{C}$ 90% Recovery point
	reverse receivery Time	Trr-2	μs	0.18 max.	I _F =10mA, I _{RP} =20mA, Ta=25°C 75% Recovery point
5	Thermal Resistance	Rth(j-l)	°C/W	15 max.	Between Junction and Lead

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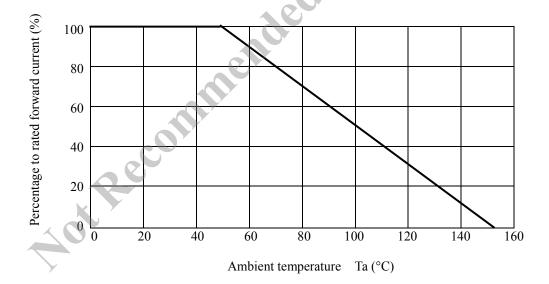
5. V_{F} test and test circuit



6. Derating

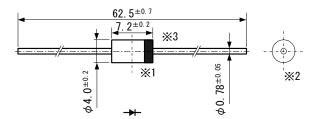
Derating to the ambient temperature.

Power loss generated by voltage is not taken into consideration.



7. Package information

7-1 Package type, physical dimensions and material



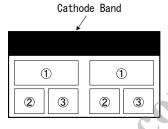
- Dimensions in mm
- *1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- *2 The centric allowance of lead wire against center of physical body is 0.3mm(max.)
- *3 The burr may exit up to 2mm from the body of lead

7-2 Appearance

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

7-3 Marking

① Type number RU1A



The Type number and Lot number are to be marked in Red.

- 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 monthMiddle of monthEnd of month