

1. Scope

The present specifications shall apply to a RU4DS.

2. Outline

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

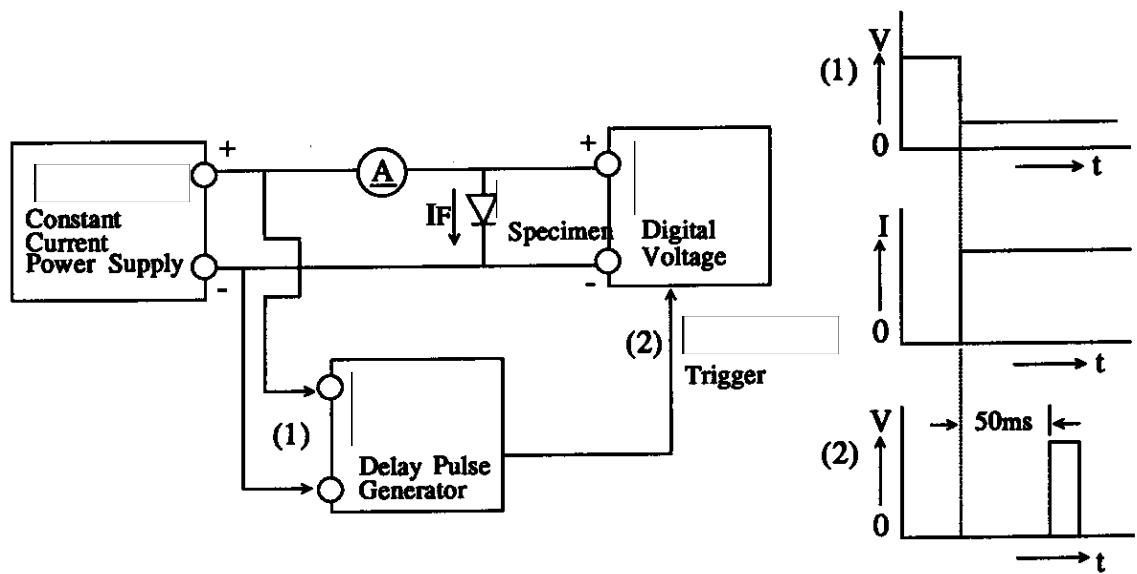
3. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions	
1	Transient Peak Reverse Voltage	V _{RSM}	V	1350		
2	Peak Reverse Voltage	V _{RM}	V	1300		
3	Average Forward Current	I _{F(AV)}	A	1.5 (Ta=60°C)	With out Fin	Refer to 6
				2.5 (Ta=60°C)	With Fin	
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)

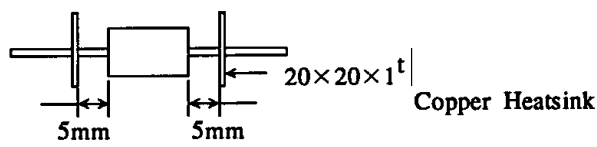
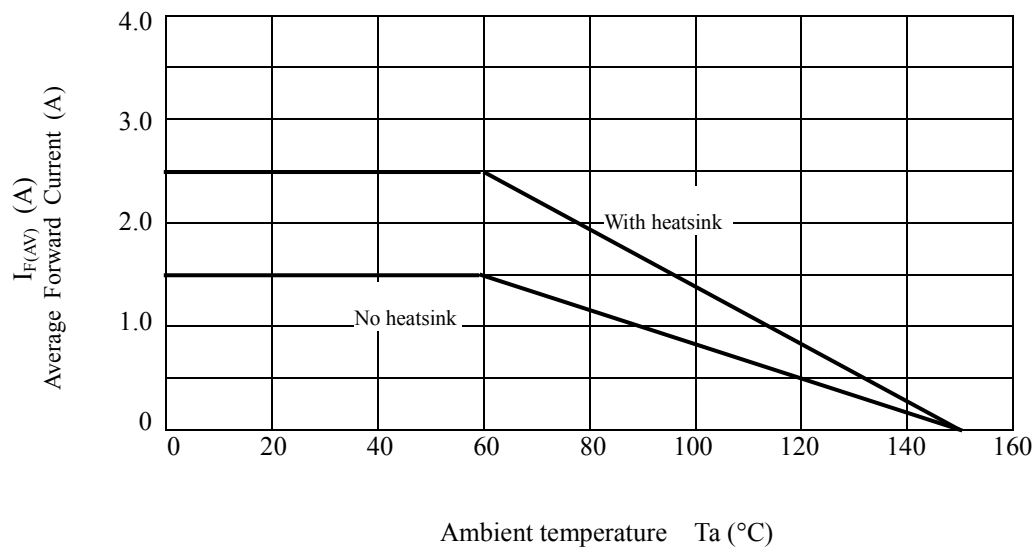
No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.80 max.	$I_F=3.0A$
2	Reverse Leakage Current	I_R	μA	50 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_R$	μA	500 max.	$V_R=V_{RM}$, $T_j=100^\circ C$
4	Reverse Recovery Time	Trr-1	μs	0.4 max.	$I_F=I_{RP}=0.1A$, Ta=25°C 90% Recovery point
		Trr-2	μs	0.18 max.	$I_F=0.1A$, $I_{RP}=0.2A$, Ta=25°C 75% Recovery point
5	Thermal Resistance	$R_{th(j-l)}$	°C /W	8 max.	Between Junction and Lead

5. V_F test and test circuit



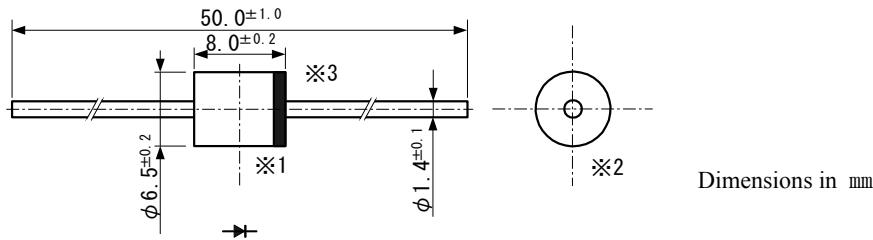
6. Derating

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



7.Package information

7-1 Package type, physical dimensions and material



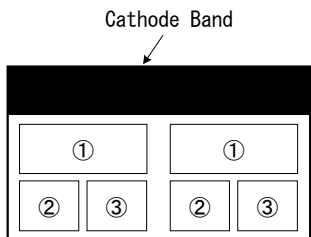
- *1 Wire diameter of lead tips is $\phi 1.55$ mm (max.)
- *2 The allowance position of body against the center of whole lead wire is 0.5 mm (max.)
- *3 The centric allowance of lead wire against center of physical body is 0.3 mm (max.)
- *4 The burr may exit up to 2 mm from the body of lead

7-2 Appearance

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

7-3 Marking

- ① Type number RU4DS



- 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.