1 Scope

The present specifications shall apply to a RS4FS.

2 Outline

Type	Silicon Diode (Mesa Type)
Structure	Resin Molded Flammability:UL94-V0 (Equivalent)
Applications	Damper Circuit

3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions	
1	Transient Peak Reverse Voltage	V_{RSM}	V	1500		
2	Peak Reverse Voltage	V_{RM}	V	1500		
3	Average Forward Current	$I_{F(AV)}$	A	1.5 (Ta=60°C)	Without heatsink	Refer to derating curve in Section 6
				2.5 (Ta=60°C)	With heatsink	
4	Peak Surge Forward Current	I_{FSM}	A	50	10ms. Half sine wave, one shot	
5	Junction Temperature	T_j	°C	-40 to +150		
6	Storage Temperature	T_{stg}	°C	-40 to +150		

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

| No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.50 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°C
4	Reverse Recovery Time	trr-1	µs	1.0 max.	$I_F = I_{RP}$=100mA 90% Recovery point, T_j=25°C
		trr-2	µs	0.4 max.	I_F=0.1A, I_{RP}=0.2A, 75% Recovery point, T_j=25°C
5	Thermal Resistance	Rth (j-l)	°C /W	8 max.	Between Junction and Lead

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5   V_F test and test circuit
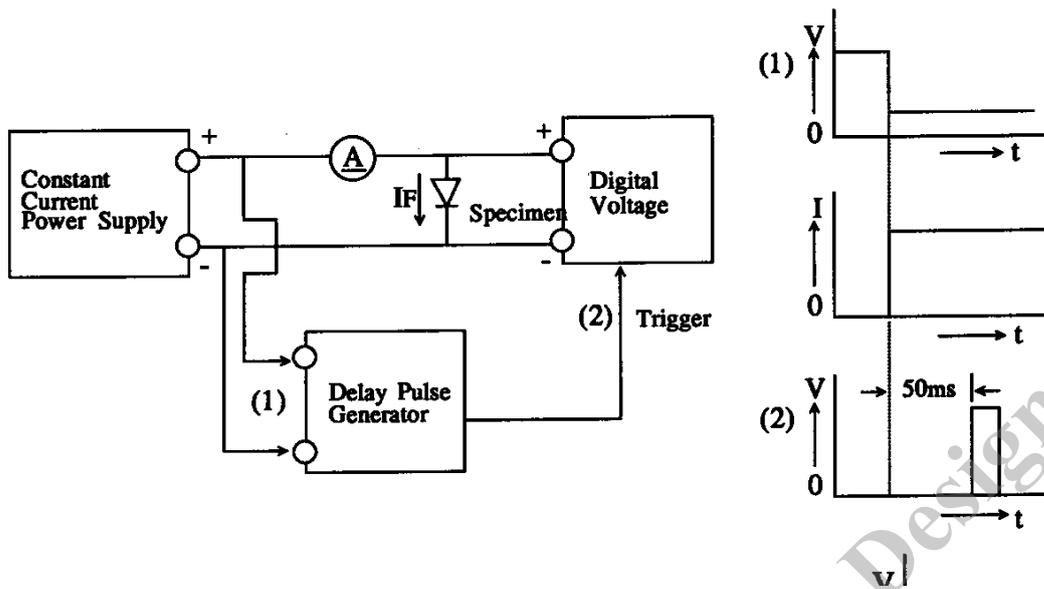
6   Derating

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

Ambient temperature   Ta (°C)

$20 \times 20 \times 1^t$ Copper Heatsink

5mm   5mm

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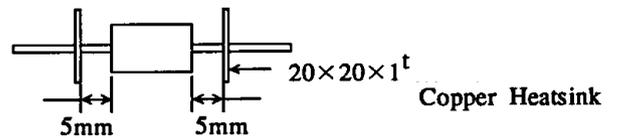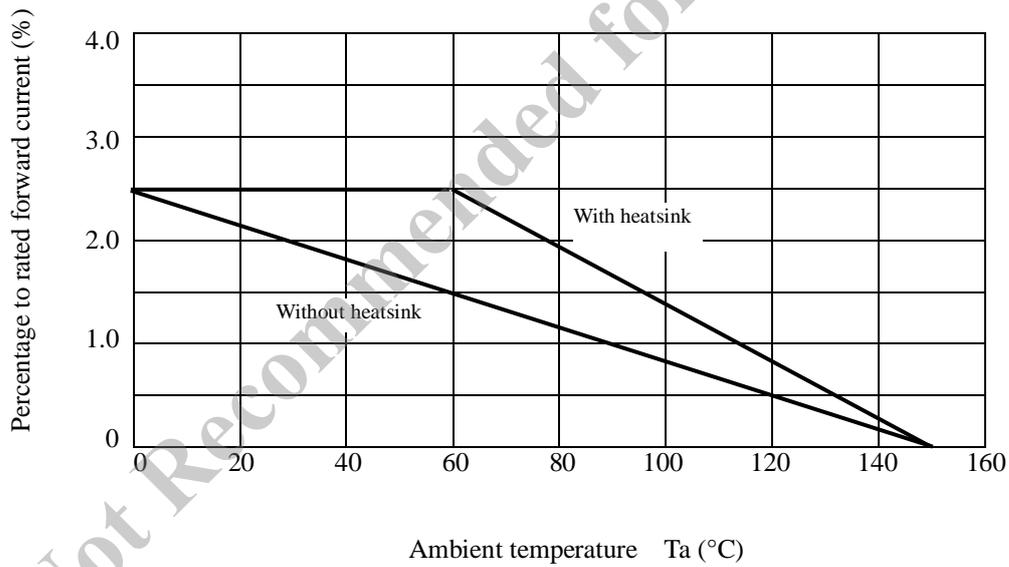
7　Package information

7-1　Package type, physical dimensions and material

50. 0$^{\pm 1.0}$
8. 0$^{\pm 0.2}$
※3
ϕ6. 5$^{\pm 0.2}$
※1
ϕ1. 4$^{\pm 0.1}$
※2

Dimensions in mm
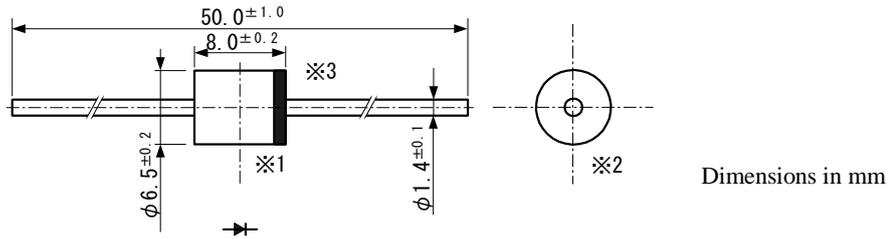
*1 Wire diameter of lead tips isϕ1.55mm(max.)
*2 The allowance position of body against the center of whole lead wire is 0.5mm (max.)
*3 The centric allowance of lead wire against center of physical body is 0.3mm (max.)
*4 The burr may exit up to 2mm from the body of lead

7-2　Appearance

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

7-3　Marking

Cathode Mark

①
①
②　③
②　③

The Type number and Lot number
are to be marked in Yellow.
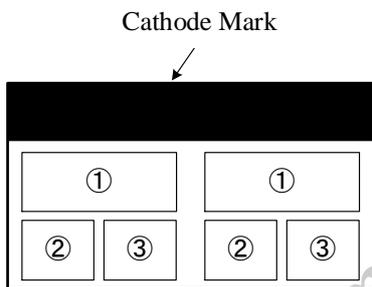
①　Type number : RS4FS
②　Lot number 1
　　First digit: Last digit of Year
　　Second digit: Month
　　　　From 1 to 9 for Jan. to Sep.
　　　　O for Oct., N for Nov., and D for Dec.
③　Lot number 2 (ten days)
　　・　　Top of the month
　　・・　　Middle of month
　　・・・　End of month

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