1 Scope

The present specifications shall apply to a RH1C.

2 Outline

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

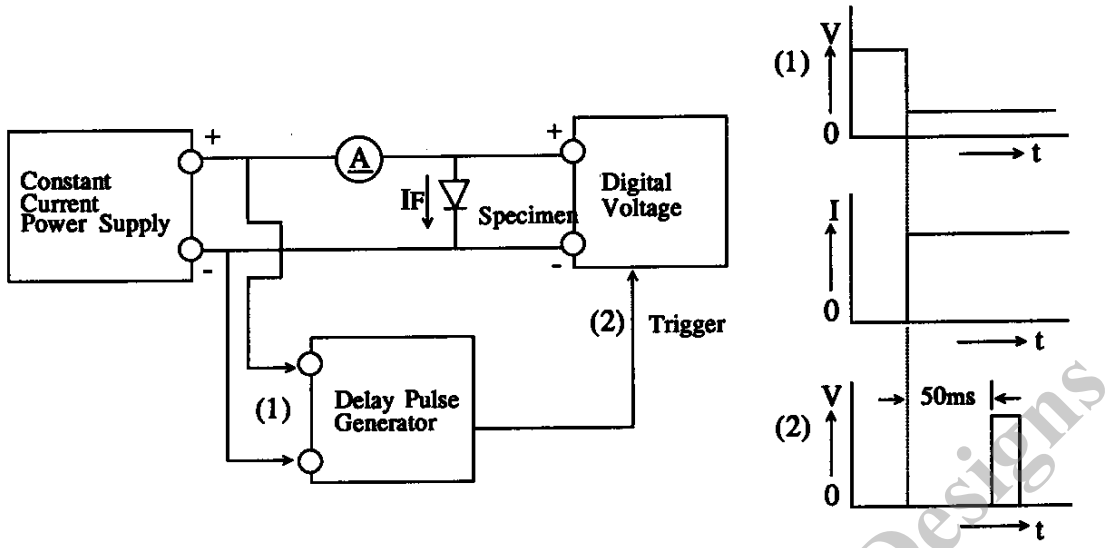
3 Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	1000	
2	Peak Reverse Voltage	V_{RM}	V	1000	
3	Average Forward Current	$I_{F(AV)}$	A	0.6	Refer to derating curve in Section 6
4	Peak Surge Forward Current	I_{FSM}	A	35	10ms. Half sine wave, one shot
5	I^2t Limiting Value	I^2t	A^2s	6.125	1 ms ≤ t ≤ 10 ms
6	Junction Temperature	T_j	°C	-40 to +150	
7	Storage Temperature	T_{stg}	°C	-40 to +150	

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

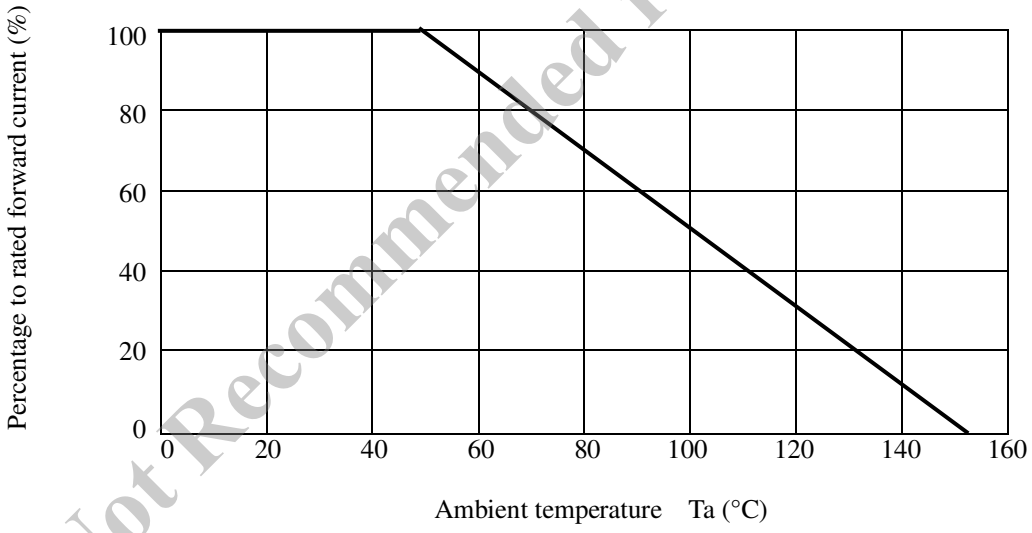
No.	Item	ymbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	1.3 max.	I_F=0.6A
2	Reverse Leakage Current	I_R	μA	5 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H\cdot I_R$	μA	70 max.	$V_R=V_{RM}$, T_a=100°C
4	Reverse Recovery Time	Trr-1	μs	4.0 max.	$I_F=I_{RP}$=10mA 90% Recovery point, T_j=25°C
		Trr-2	μs	1.3 max.	I_F=100mA, I_R=200mA 75% Recovery point ,T_j=25°C
5	Thermal Resistance	Rth (j-l)	°C /W	15 max.	Between Junction and Lead

5 V_F test and test circuit



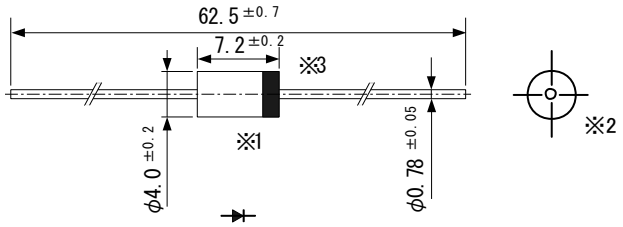
6 Derating

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



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)Polarity indication (Cathode Band)
(2) Marking Type number RH1C
(3) 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.
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 yellow.
The marking on the case of a part, which is printed in two positions, should be legible in either of the two at least