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## SPECIFICATION FOR APPROVAL

CUSTOMER	立創電子
CERTIFIED MODEL/TYPE	KRT6000015
PART NO.	KRT6000015SBY (RoHS+HF)
APPLICATION	
CUSTOMER P/N	
ISSUE DATE	Jul.06.2022
REV. NO.	
REV. DATE	

FOR CUSTOMER APPROVAL	CHECKED BY
	<i>Haili Gong</i>
	APPROVED BY
	<i>Huaifang Zhang</i>





**REVISED RECORD SHEET**

REV. NO	REV. DATE	REVISED CONTENT



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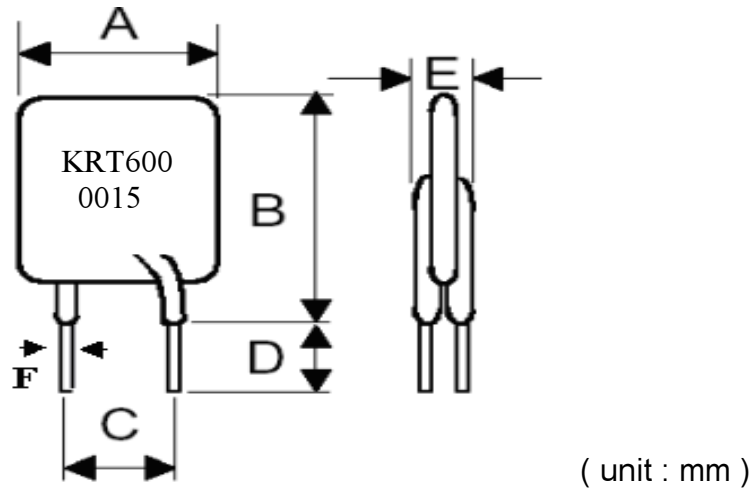
Part Number Code

Example :

**K**      **R**      **T**      **600**      **0015**      **S**      **B**      **Y**  
(1)      (2)      (3)      (4)      (5)      (6)      (7)      (8)

No.	Item	Digit	Specification
(1)	Product Type	K	Thinking Polymer PTC Resettable Fuse
(2)	Form Factor	R	Radial series
(3)	Usage	T	Telecom
(4)	Vmax. Interrupt	600	600 V
(5)	I hold	0015	0.15A @ 23°C
(6)	Appearance	S	Straight Lead
(7)	Packaging	B	Bulk
(8)	Optional Suffix	Y	RoHS +HF compliance

### Structure and Dimensions



A	B	C typ.	D	E	F typ.
7.6~9.0	7.9~12.5	5.0±0.8	4.7~8.7	3.5~5.2	0.60±0.02

### Electrical Characteristics (23 °C)

Part No.	V max Interrupt	V max Operating	I max.	I hold @ 23°C	I trip @ 23°C	Pd (max.)
	(V)	(V)	(A)	(A)	(A)	(W)
KRT6000015SBY	600	250	3.0	0.15	0.30	1.00

Part No.	Max.time to trip		Resistance (Ω)		Operating / storage temperature
			Initial (Ri)	Post trip (R1)	
	(A)	(Sec.)	min.	max.	(°C)
KRT6000015SBY	1.00	4.0	6.00	17.0	-40 ~ +85

I<sub>hold</sub>=Hold current :maximum current device will pass without interruption at 23°C still air unless otherwise specified.

I<sub>trip</sub>=Trip current :minimum current that will switch the device from low resistance to high resistance at 23°C still air unless otherwise specified.

V<sub>max Operating</sub> =Maximum voltage device can withstand without damage at rated current.

V<sub>max Interrupt</sub>=Maximum interrupt voltage device can withstand for short period of time.

I<sub>max</sub>=Maximum current device can withstand without damage at rated voltage .

P<sub>d</sub>=Power dissipated from device while the tripped state at 23°C still air unless otherwise specified.

R<sub>imin</sub>=Minimum resistance of device prior to tripping at 23°C .

R<sub>imax</sub>=Maximum resistance of device prior to tripping at 23°C .

R<sub>1max</sub>=Maximum resistance of the device one hour after tripping at 23°C .

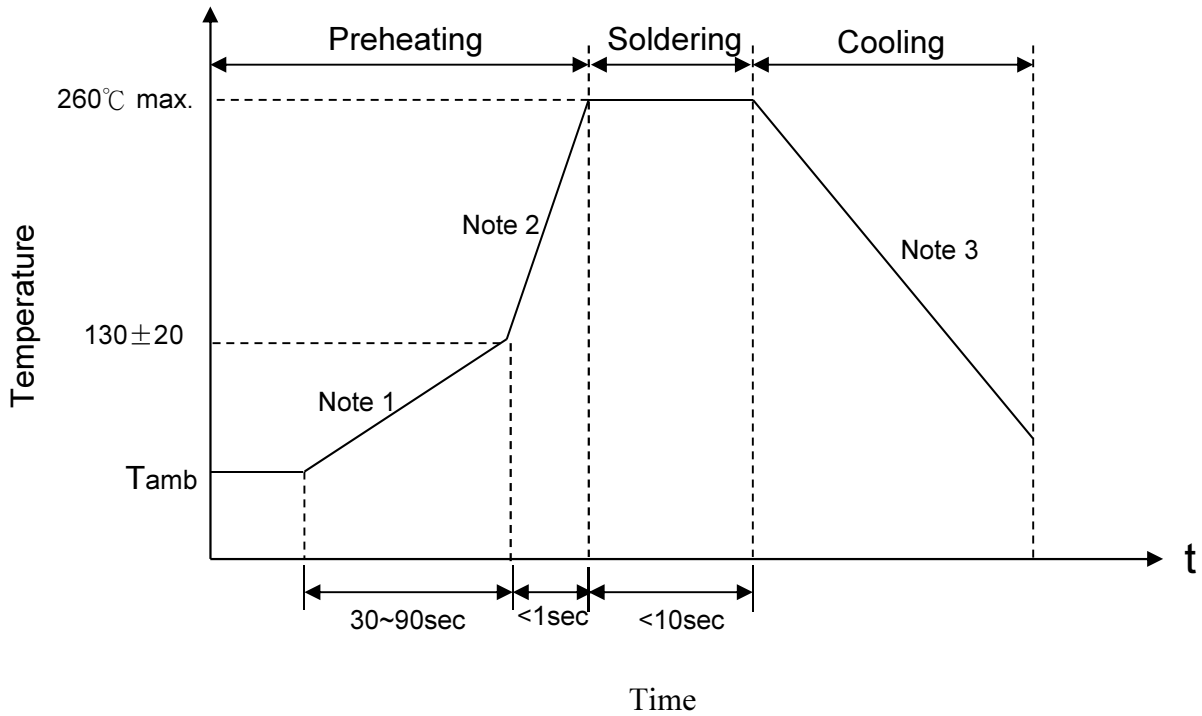
**Caution:Operation beyond the specified rating or improper use may result in damage and possible arcing and flame.**

Reliability

Item	Standard	Test conditions/Methods	Specifications
Passive Aging	IEC60738-1	85±5°C, 1000±24hrs	±5% typical resistance change
Humidity Aging	IEC60068-2-78	85±5°C, 80~85%RH, 1000±5hrs	±5% typical resistance change
Rapid Change of Temperature	IEC60738-1	85±5/-40±5°C, 10 cycles, Duration:30min	±5% typical resistance change
Overload Endurance	UL 1434	Vmax,120% Imax ,50 cycles + Vmax,300% Itrip ,6000 cycles	No arcing or burning
<b>Aging</b>	UL 1434	Vmax, Itrip ≤ I ≤ Imax , 1000±24hrs	No arcing or burning
Resistance to Soldering Heat	IEC60068-2-58	260 ± 5 °C , 10 ± 1 sec	Rf<R1max No visible damage

## Soldering Recommendation

### ■ Wave Soldering Profile

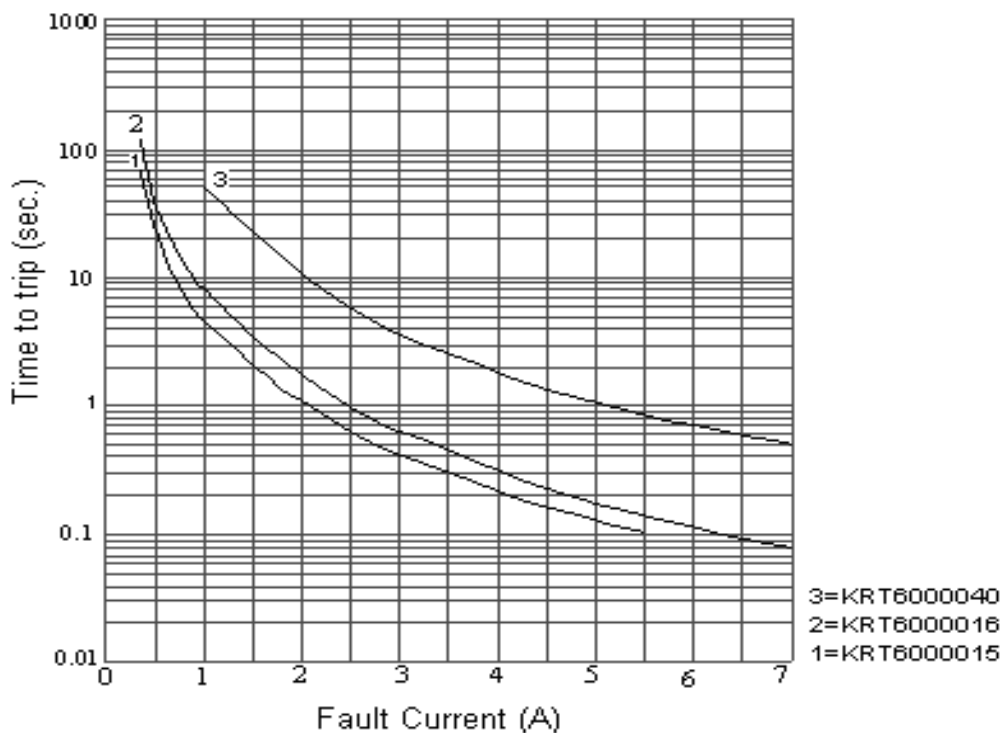


- Note 1 : (1~3)°C/sec
- Note 2 : Approx. 200°C/sec
- Note 3 : 5°C/sec Max

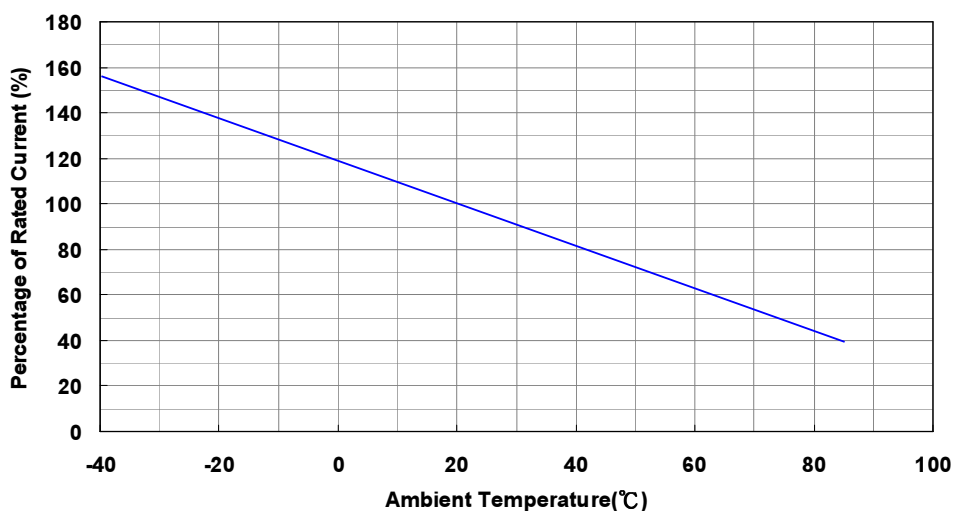
### ■ Recommended Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360°C (max.)
Soldering Time	3 sec (max.)
Distance from Thermistor	2 mm (min.)

Typical Time to Trip Curve at 23 °C



Thermal Derating Curve



Model	Ambient Operation Temperature KRT (°C -- A)								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
KRT6000015	0.24	0.21	0.18	0.15	0.12	0.105	0.0915	0.078	0.06



### RoHS Compliant Declaration

We hereby declare that the components delivered to your company are compliant with RoHS directive 2015/863/EU.

### Warehouse Storage Conditions of Products

(I) Storage Conditions :

- 1.Storage Temperature :  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 2.Relative Humidity :  $\leq 75\% \text{RH}$
3. Keep away from corrosive atmosphere and sunlight.

(II) Period of Storage : 1 year

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Safety Approvals (Certified Model/Type : KRT6000015)



\* UL 1434 / cUL recognized (File # E138827)



\* TUV recognized (File #R50285055)



\* CQC recognized (FileNo.CQC13001098048)

Certificates

- (1) IATF 16949 certificate
- (2) ISO 9001 certificate

Test Report

- (1) RoHS test report
- (2) Halogen-free test report

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