



## Features

- Ceramic Case
- Non-Resettable
- High Accuracy of Functioning Temp.
- RoHS & REACH Compliant

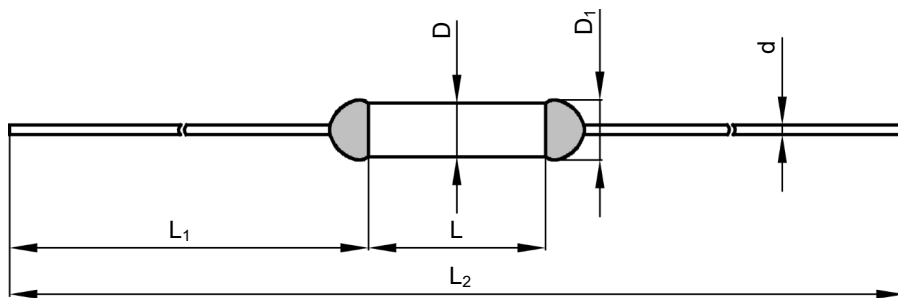
## Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Lead Wires can be Insulated

## Applications







- Electric Blankets
- Electric Aroma Diffusers
- Home Electrical Appliances
- Motors
- Lamps
- Switched-Mode Power Supplies
- Transformers

## Dimensions (mm)



L	L <sub>1</sub>	L <sub>2</sub>	D	D <sub>1</sub>	d
9.0 ± 0.5	35.0 ± 2.0	79.0 ± 3.0	2.5 ± 0.5	≤ 3.0	0.54 ± 0.05

# Specifications







Model	$T_r$	Fusing Temp.	$T_h$	$T_m$	$I_r$	$U_r$							RoHS, REACH	
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	UL	cUL	TUV	PSE	KTL	CCC		
BT076/02a	76	73 ± 2	53	200	2	AC 250	○	○	●	●	●	●	●	
						AC 125	●	●	○	○	○	○	○	●
						DC 50	●	●	○	○	○	○	○	●
BT086/02a	86	81 ± 2	61	200	2	AC 250	○	○	●	●	●	●	●	
						AC 125	●	●	○	○	○	○	○	●
						DC 50	●	●	○	○	○	○	○	●
BT097/02a	97	93 ± 2	70	200	2	AC 250	○	○	○	○	○	○	●	
						AC 125	●	●	○	○	○	○	○	●
						DC 50	●	●	○	○	○	○	○	●
BT102/02a	102	98 ± 3	79	200	2	AC 250	○	○	●	●	●	●	●	
						AC 125	●	●	○	○	○	○	○	●
						DC 50	●	●	○	○	○	○	○	●
BT115/02a	115	111 ± 2	91	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT125/02a	125	121 ± 2	100	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT130/02a	130	125 ± 2	106	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT133/02a	133	130 ± 2	111	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT135/02a	135	130 ± 2	111	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT136/02a	136	131 ± 2	112	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT139/02a	139	135 ± 2	115	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT145/02a	145	140 ± 2	121	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●
BT150/02a	150	145 ± 2	126	200	2	AC 250	●	●	●	●	●	●	●	
						DC 50	●	●	○	○	○	○	○	●

Note :

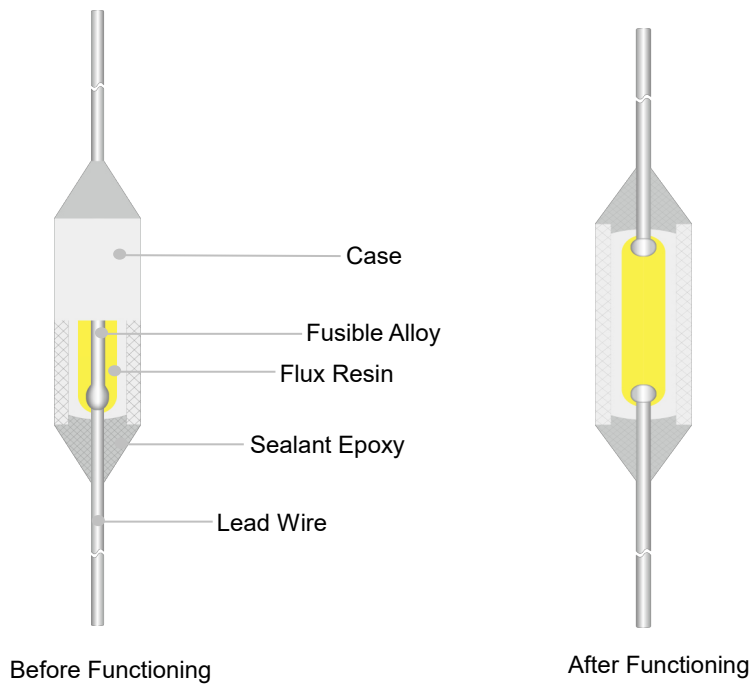
"●"Means certificated.

"○"Means non-certificated.

## Agency Approvals

Agency	Standards	File No.
	UL 60691	E214712
	CAN-CSA-E60691	E214712
	EN 60691	R50259420
	J60691	PSE15020870 PSE15020871 PSE15020872 PSE15020873 PSE15020874 PSE15020875 PSE15020876
	K60691	SU05023-11001 SU05023-11002 SU05023-11003
	GB/T 9816	2020980205000186

## Structure Diagrams

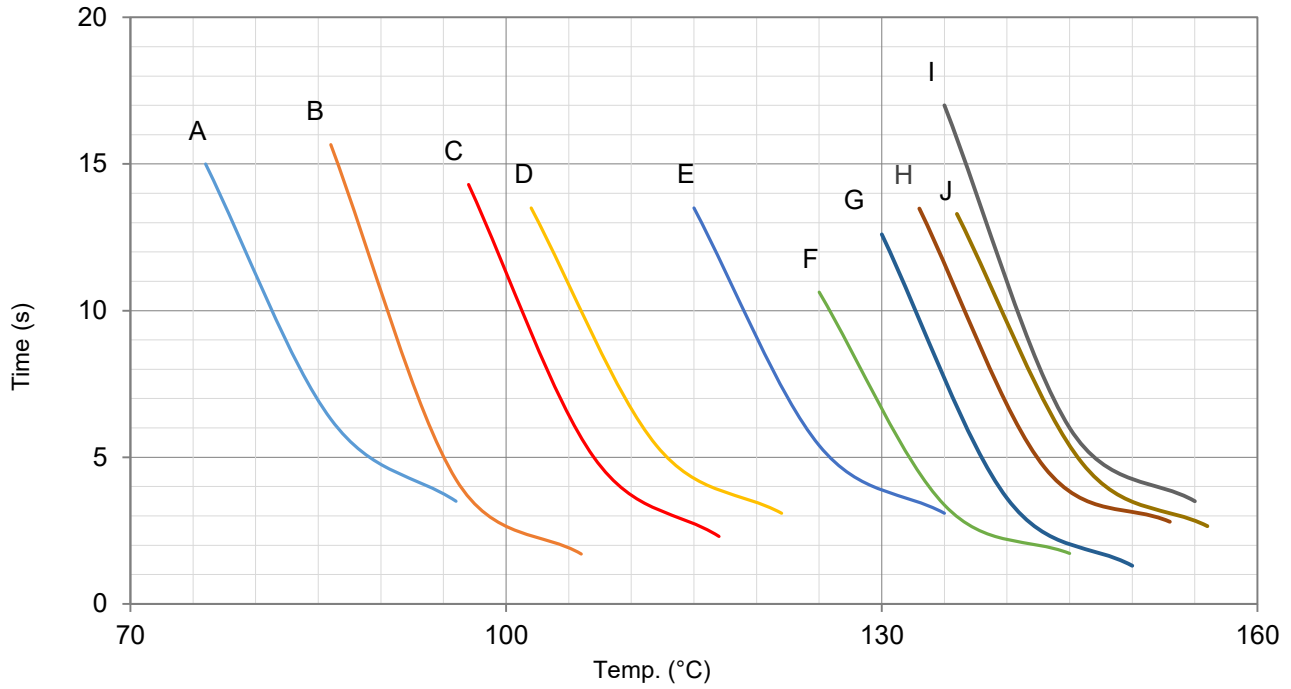


## Glossary

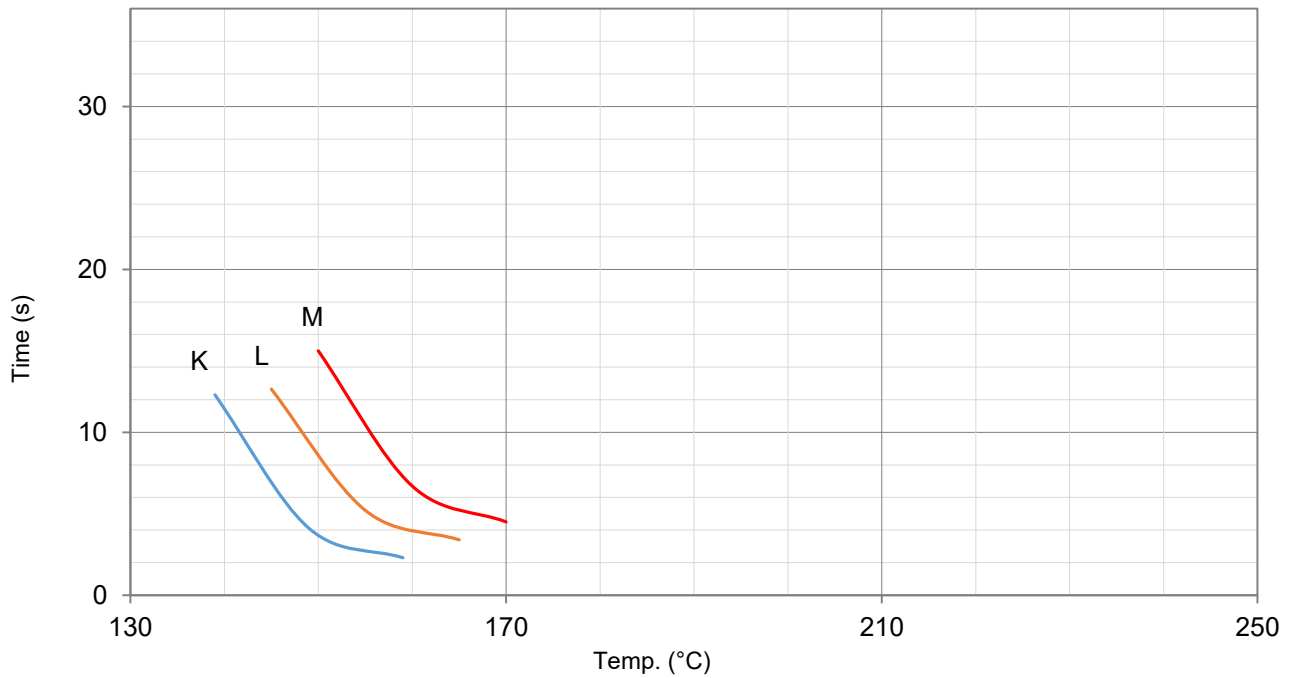
Item	Description
TCO	<p><b>Thermal-Link</b></p> <p>A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed.</p>
ATCO	<p><b>Alloy Thermal-Link</b></p> <p>Alloy Type Thermal-Link, Alloy is the thermal element.</p>
$T_f$	<p><b>Rated Functioning Temp.</b></p> <p>The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load.</p> <p>Tolerance: <math>T_f \pm 10^\circ \text{C}</math> (GB/T 9816, EN 60691, K60691).</p> <p>Tolerance: <math>T_f \pm 7^\circ \text{C}</math> (J60691).</p>
Fusing Temp.	<p><b>Fusing Temp.</b></p> <p>The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the only load.</p>
$T_h$	<p><b>Holding Temp.</b></p> <p>The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours.</p>
$T_m$	<p><b>Maximum Temp. Limit</b></p> <p>The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time.</p>
$I_r$	<p><b>Rated Current</b></p> <p>The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.</p>
$U_r$	<p><b>Rated Voltage</b></p> <p>The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.</p>
CP Wire	<p><b>CP Wire</b></p> <p>Tinned Copper Plated Wire</p>

# Product Temp.-Time Curve (Reference)

The Temp.-Time Curve of Thermal-Link in different temp. oil bath.

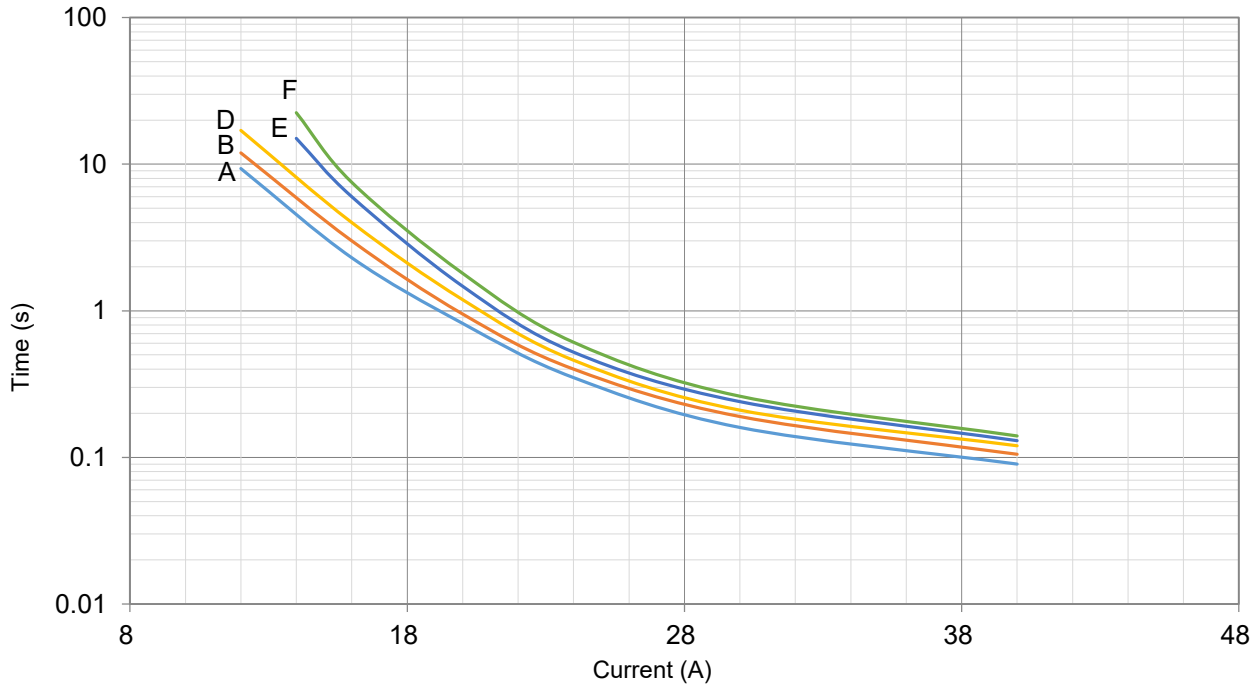


- |               |               |
|---------------|---------------|
| A - BT076/02a | H - BT133/02a |
| B - BT086/02a | I - BT135/02a |
| C - BT097/02a | J - BT136/02a |
| D - BT102/02a | K - BT139/02a |
| E - BT115/02a | L - BT145/02a |
| F - BT125/02a | M - BT150/02a |
| G - BT130/02a |               |



# Product Current-Time Curve (Reference)

The Current-Time Curve shows functioning time at multi-times rated current at room temperature  $25 \pm 2 \text{ }^\circ\text{C}$ .



- |               |               |
|---------------|---------------|
| A - BT076/02a | H - BT133/02a |
| B - BT086/02a | I - BT135/02a |
| C - BT097/02a | J - BT136/02a |
| D - BT102/02a | K - BT139/02a |
| E - BT115/02a | L - BT145/02a |
| F - BT125/02a | M - BT150/02a |
| G - BT130/02a |               |

