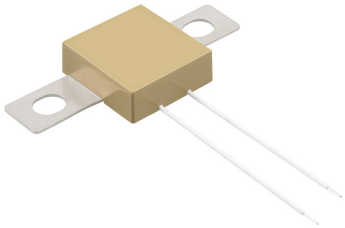
Themal Link Fuses

RoHS Compliant



Description

This series construction consists of thermal element with low melting point, flux resin and electrode leads. The control part consists of Feed Heater (FH) and ATCO, which is used to cut off the control circuit.

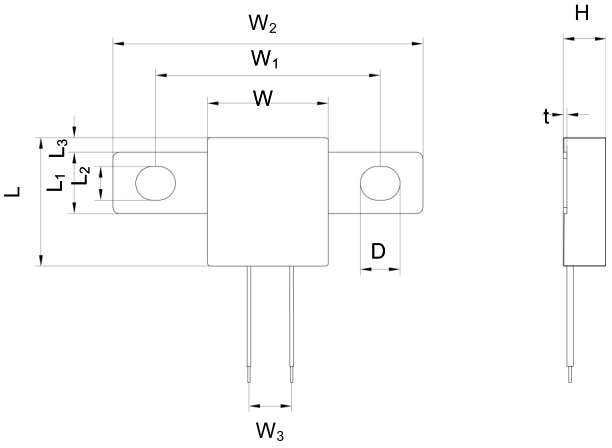
Applications

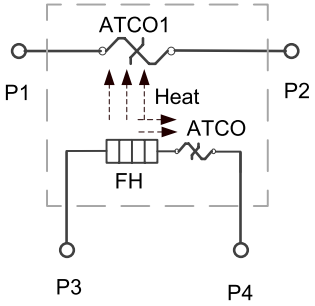
- Battery Control Unit Fail Protection
- High Power Solid State Relays

Features

- Low Impedance, Low Power Consumption
- Fast Response Clearing Time ≤ 20 seconds
- Non-Resettable
- Active Control
- Over Temperature Protection
- Self-Control Protection

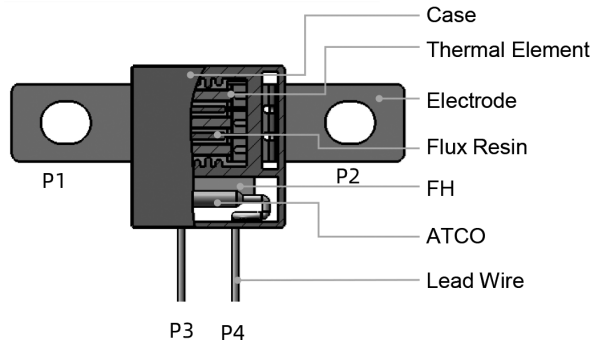
Dimensions





- P1 - P2 Main Circuit (MC)
- P3 - P4 Control Circuit (CC)

Structure Diagrams



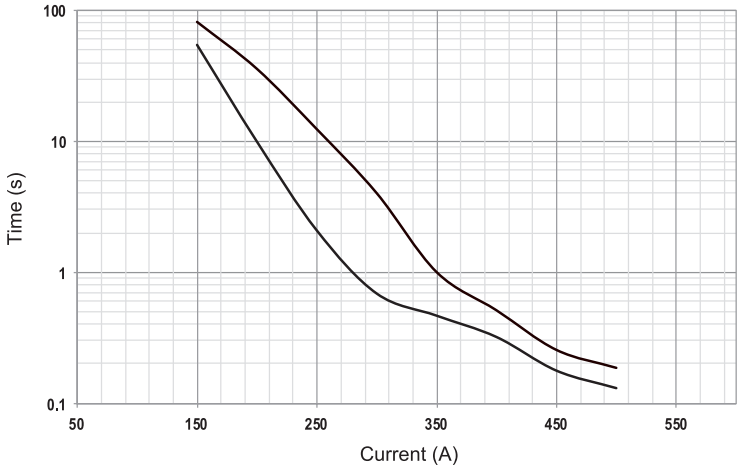
L	L1	L2	L3	W	W1	W2	W3	H	t	D
21 ±0.5	10 ±0.5	5.5 ±0.2	2.4 ±0.5	19.8 ±0.5	36.8 ±1	50.8 ±1	7 ±1	7 ±1	0.6 ±0.1	6.5 ±0.5

Item	Description
iTCO	**idea Thermal-Link** After receiving control signals to fuse the protector.
TCO	**Thermal-Link** 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 temp. in excess of that for which it has been designed.
ATCO	**Alloy Thermal-Link** Alloy type Thermal-Link, Alloy is thermal element.
FH	**Feed Heater** Electric appliances that use electric energy to achieve heating effect.
MC	**Main Circuit** All conductive components used in switching devices for closing or disconnecting circuits in a circuit.
CC	**Control Circuit** In addition to the main circuit, all conductive parts of the switching apparatus used in the access circuit as the closing operation and / or opening operation of the switching apparatus.
I_r	**Rated Current** The current used to classify an iTCO, which is the Maximum current that iTCO allows to carry and is able to cut off the circuit safely.
U_r	**Rated Voltage** The voltage used to classify an iTCO, which is the Maximum voltage that iTCO allows to carry and is able to cut off the circuit safely.
T_f	**Rated Functioning Temp.** The temperature of the Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load. Tolerance: T_f 0 / -10°C (GB 9816, EN 60691, K60691). Tolerance: T_f ± 7°C (J60691).
Fusing Temp.	**Fusing Temp.** The temp. of the iTCO which causes it to change its state of conductivity is measured with silicone oil bath in which the temp. is increased at the rate of (0.5 to 1) °C /minutes, with a detection current less than 10 mA as the only load.
T_h	**Holding Temp.** The Maximum temp. at which a iTCO will not change its state of conductivity when conducting rated current for 168 h.
T_m	**Maximum Temp. Limit** The temp. of the iTCO stated by the manufacturer, up to which the mechanical and electrical properties of the iTCO having changed its state of conductivity, will not be impaired for a given time.

Specification

Model	Main Circuit Specifications						Control Circuit Specifications		Fusing Time	
	T_f	Fusing Temp.	T_h	T_m	I_r	U_r	U_r	Cold Resistance	t_{mc} (P1 ~ P2)	t_{cc} (P3 ~ P4)
	(°C)	(°C)	(°C)	(°C)	(A)	(V)	(VDC)	(Ω)	(s)	(s)
MPJS136-R5N-PKZ	136	132 ± 2	94	180	60	AC 250 DC 150	48	22 ±7.5%	≤ 20	t_{mc} + (0 to 20)
MPJS150-R5N-PKZ	150	146 ± 2	115							
MPJS136-R5N-MKZ	136	132 ± 2	94		40					
MPJS150-R5N-MKZ	150	146 ± 2	115							
MPJS136-R5N-LKZ	136	132 ± 2	94		30					
MPJS150-R5N-LKZ	150	146 ± 2	115							

Product Current-Time Curve



Part Number Table

Description	Part Number
Themal Link Fuse, 150V DC, 60A, 136ºC	MPJS136-R5N-PKZ
Themal Link Fuse, 150V DC, 60A, 150ºC	MPJS150-R5N-PKZ
Themal Link Fuse, 150V DC, 40A, 136ºC	MPJS136-R5N-MKZ
Themal Link Fuse, 150V DC, 40A, 150ºC	MPJS150-R5N-MKZ
Themal Link Fuse, 150V DC, 30A, 136ºC	MPJS136-R5N-LKZ
Themal Link Fuse, 150V DC, 30A, 150ºC	MPJS150-R5N-LKZ