

Specification Status: Released

TABLE I. Electrical Rating:

Current Capacity	100% x I_{rated} No Melting
Cut Time	200% x I_{rated} < 1 min
Interrupting Current	5 x I_{rated} , power on 5 ms, power off 995 ms, 10000 cycles No Melting
Over Voltage Operation	In operation voltage range, the fusing time is <1min.

Device Circuit:

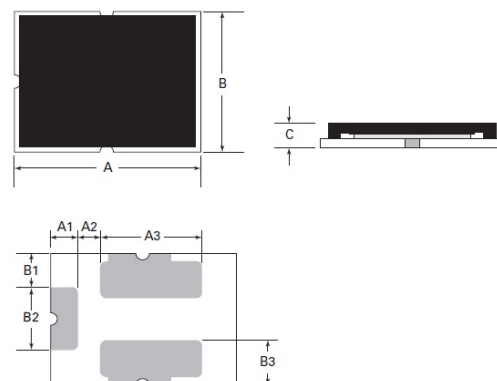
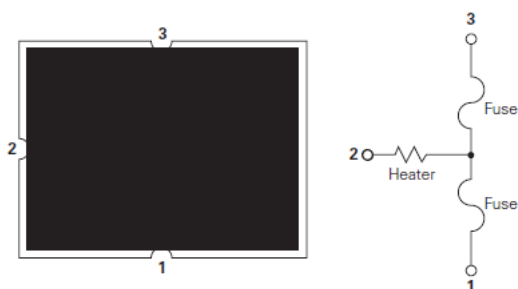


TABLE II. DIMENSIONS (mm):

A	4.00 ± 0.2
B	3.00 ± 0.3
C	0.90 max
A1	0.58 ± 0.1
A2	0.50 ± 0.1
A3	2.20 ± 0.1
B1	0.80 ± 0.1
B2	1.44 ± 0.1
B3	1.03 ± 0.1

TABLE III. Electrical Specification:

Part Number	Marking	I_{rated} (A)	Cells in series	V_{max} (V _{DC})	I_{break} (A)	V_{OP} (V)	Resistance		Agency Approval	
							R_{heater} (Ω)	R_{fuse} (mΩ)		
ITV4030L1412	LF1412	12	4	36	50	10.5 ~ 19.6	11.2 ~ 20.0	1.5 ~ 3.5	Pending	Pending

Notes:

I_{rated} : Current carrying capacity that is measured at 40°C thermal equilibrium condition.

I_{break} : The current that the fuse element is able to interrupt.

V_{max} : The maximum voltage that can be cut off by fuse.

V_{OP} : Range of operation voltage.

R_{heater} : The resistance of the heating element.

R_{fuse} : The resistance of the fuse element.

Cells in series: Number of battery cells connected in series in the circuit for ITV device to protect.

• Value specified is determined by using the PWB with 2mm*2oz copper traces, AWG18 covered wire, and 0.6mm glass epoxy PCB.

Materials Information:**ROHS Compliant**Directive 2011/65/EU
Compliant**ELV Compliant**Directive 2000/53/EC
Compliant**Halogen Free***

* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.

Environmental Specifications:

Storage Temperature	0~35°C, ≤ 70%RH 3 months after shipment
Operating Temperature	-10°C to +65°C
Hot Passive Aging	100±5°C, 250 hours No structural damage and functional failure
Humidity Aging	60°C±2°C, 90~95%R.H. 250 hours No structural damage and functional failure
Cold Passive Aging	-20±3°C, 500 hours No structural damage and functional failure
Thermal Shock	MIL-STD-202 Method 107G +125°C /-55°C, 100 times No structural damage and functional failure

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