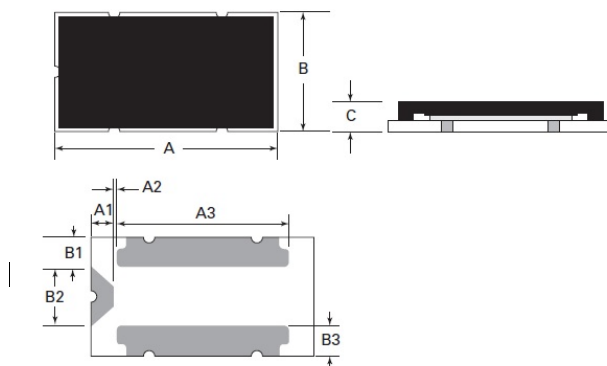
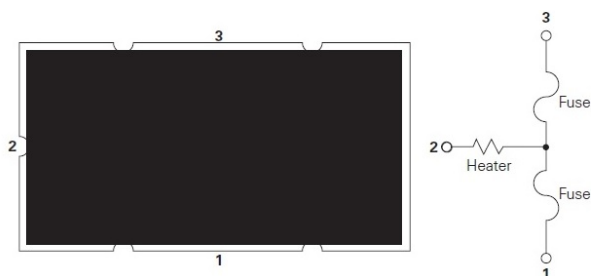


Specification Status: Released



TABLE I. Electrical Rating:

| | |
|-------------------------------|---|
| Current | 100% x I_{rated} |
| Capacity | No Melting |
| Cut Time | 200% x I_{rated} < 1 min |
| Interrupting Current | 150A, 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 | 9.50 ± 0.2 |
| B | 5.00 ± 0.3 |
| C | 2.00 max |
| A1 | 0.89 ± 0.1 |
| A2 | 0.15 ± 0.1 |
| A3 | 7.32 ± 0.1 |
| B1 | 1.32 ± 0.1 |
| B2 | 2.36 ± 0.1 |
| B3 | 1.25 ± 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) |  |  |
| ITV9550L5045 | LF5045 | 45 | 12 ~ 14 | 62 | 120 | 43.7 ~ 62.0 | 38.5 ~ 68.0 | 0.4 ~ 2.0 | 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 25mm*2oz copper traces, AWG8 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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