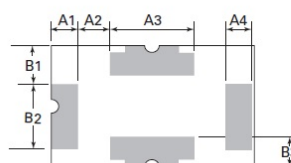
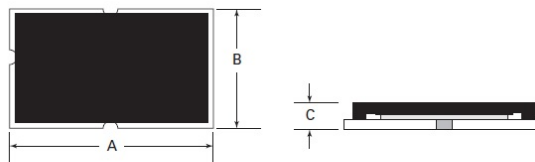
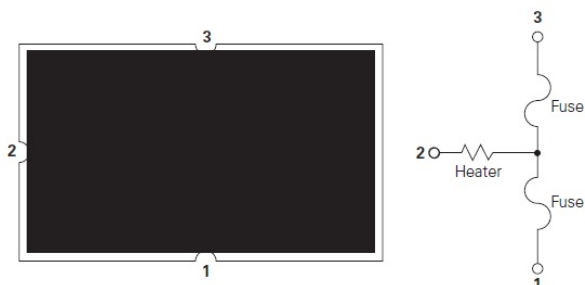


## Specification Status: Released



**TABLE I. Electrical Rating:**

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


**Device Circuit:**

**TABLE II. DIMENSIONS (mm):**

|    |            |
|----|------------|
| A  | 5.40 ± 0.2 |
| B  | 3.20 ± 0.3 |
| C  | 1.80 max   |
| A1 | 0.72 ± 0.1 |
| A2 | 0.81 ± 0.1 |
| A3 | 2.20 ± 0.1 |
| A4 | 0.72 ± 0.1 |
| B1 | 1.05 ± 0.1 |
| B2 | 1.70 ± 0.1 |
| B3 | 0.77 ± 0.1 |

**TABLE III. Electrical Specification:**

| Part Number  | Marking | $I_{rated}$ (A) | Cells in series | $V_{max}$ (V <sub>DC</sub> ) | $I_{break}$ (A) | $V_{OP}$ (V) | Resistance       |                 | Agency Approval   |   |
|--------------|---------|-----------------|-----------------|------------------------------|-----------------|--------------|------------------|-----------------|---|---|
|              |         |                 |                 |                              |                 |              | $R_{heater}$ (Ω) | $R_{fuse}$ (mΩ) |  |  |
| ITV5432L3030 | LF3030  | 30              | 7               | 62                           | 80              | 23.0 ~ 31.5  | 24.6 ~ 39.3      | 0.5 ~ 2.5       | 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 29.4mm\*2oz copper traces, AWG10 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:**

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

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