

## LITHIUM BATTERY

### Primary lithium batteries ER13150

**3.6V Primary lithium-thionyl chloride  
(Li-SOCl<sub>2</sub>) Energy type  
bobbin cell**

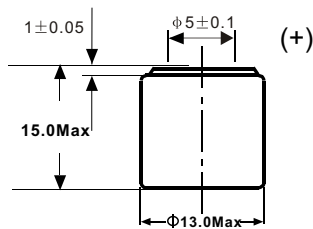
For low drain / long time applications requesting superior voltage response in -55°C~+85°C environments.

#### Cell size references

|  |   |
|--|---|
| Electrical characteristics<br>(typical values relative to cells stored for one year or less at +30°C max.)   |   |
| Nominal capacity<br>(at 0.5 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).  | 0.45Ah  |
| Open circuit voltage (at +20°C)  | 3.66V   |
| Nominal voltage (at 0.5mA +20°C)   | 3.6V  |
| Pulse capability: Typically up to 20 mA (30 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 μ A base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult pbq) |   |
| Max. Continuous current  | 10mA  |
| Max. Pulse current   | 20mA  |
| Storage (recommended)<br>(for more severe conditions, consult pbq)   | +30°C (+86 F) max                                   |
| Operating temperature range<br>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult pbq)   | -55°C / +85°C                                       |
| Physical characteristics   |   |
| Diameter (max)   | 13mm(0.45 in)                                       |
| Height (max)   | 15mm(0.6 in)  |
| Typical weight   | 5.5g(0.18oz)  |
| Available termination suffix   | radial tabs, radial pins, axial leads, flying leads |

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Unit:mm

#### Key features

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 1% after 1year of storage at +20°C)
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

#### Main applications

- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

#### Storage

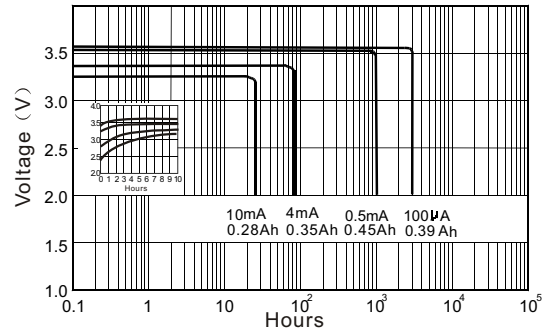
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

#### Warning

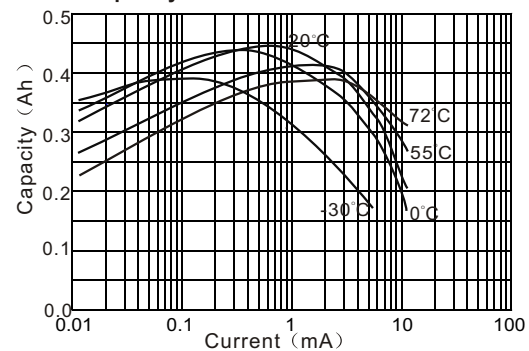
- ▶ Do not use if the battery casing was mangled.
- ▶ Don't use different models of battery in series.
- ▶ Do not try to recharge.

#### Characteristic curves

##### Discharge performance (25°C)



##### Capacity VS Current



##### Voltage VS Temperature

