

Primary Lithium Battery

CR123ASE

3.0V [Li-MnO₂]

123A-size bobbin cell



BENEFITS

- High Voltage Response, Stable During Most of the Lifetime of the Application
- Energy Density up to 830Wh/L
- Wide Operating Temperature Range (-40℃ ~+85℃)
- Low Self-discharge Rate (less than 1% per year after 1 year of storage at +25℃)

KEY FEATURES

- Optimized Battery Structure, Full Discharge Capacity
- Long Endurance
- No Passivation
- GB 8897.4-2008、IEC 60086.4:2014 and RoHS

MAIN APPLICATIONS

- Security System
- Smart Metering
- RFID and Tracking System
- Wireless Transmitting
- Smart Home Devices
- Military Devices

References Data

Electrical characteristics

Open circuit voltage (at 23±2℃) ≥3.10V

Nominal capacity 1800mAh
(At +25℃, battery discharged at continuous current 1mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current 10mA
(At +25℃, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)

Maximum pulse discharge current 100mA
(At +25℃, 2.0V cut-off, battery discharged for minimum 50% of rated capacity with max pulse for 3 seconds after 27 seconds break. The discharged capacity 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 HCB.)

Storage (recommended) ≤+30℃
(For more severe conditions, consult HCB) ≤75%RH

Operating temperature range -40℃~+85℃
(Operation above ambient Temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult HCB.)

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Physical characteristics

Diameter 16.7±0.3mm

Height 34.0±0.5mm

Typical weight 22.0g

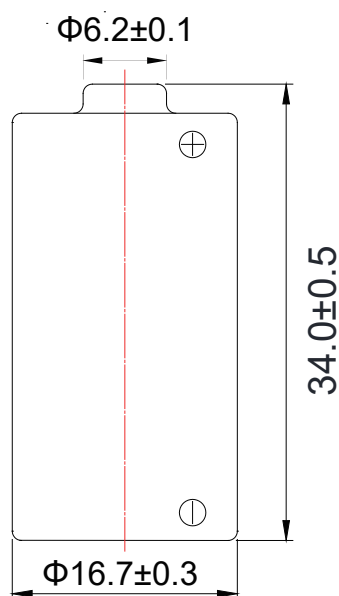
Li metal content 0.52g

MSDS as per request

Diode (1N4007, 1N5819)

PTC (SRS175...)

Tag, wire, connector, etc. available



Dimensions in mm (GB1804-m)

WARNING:

- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice.

Contact HCB for the latest information

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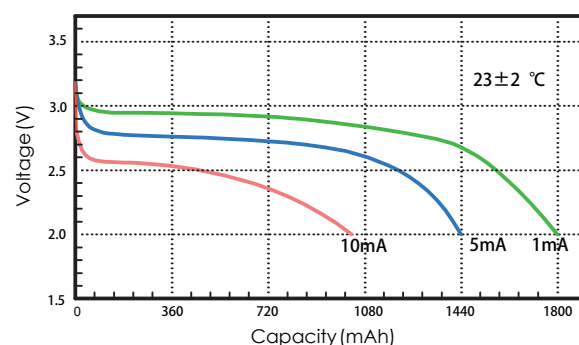
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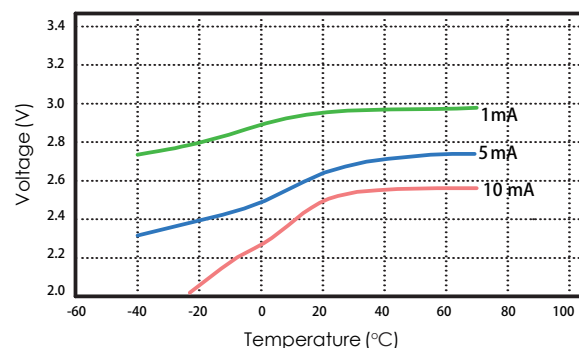
Web: www.cnhcb.com

No.: HCB-MKT.PM-S[V2.0 2023 05]

1. Typical discharge profiles at 23±2°C
(at mid-discharge)



2. Voltage plateau versus Current and Temperature
(at discharge stable phase)



3. Storage characteristics

