



Primary Lithium Battery CR123ASC

3.0V [Li-MnO₂]

2/3A-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°C ~+70°C)
- Low Self-discharge Rate (less than 1% per year after 1 year of storage at +25°C)

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

HCB BATTERY CO., LTD

Add: 37 Tianyuan Street, Dongxihu District, Wuhan, Hubei, China

P.O.: 430040
Tel: +86(0)27 83248452
Fax: +86(0)27 83248455

Email: haocheng@cnhcb.com
Web: www.cnhcb.com
No.: HCB-MKT.PM-S[V3.1 2024 05]



Reference Data

Electrical characteristics

Open circuit voltage (at 25°C) 3.10V

Nominal capacity 2100mAh
(At +25°C, 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 20mA
(Maximum continuous current is 20mA. The discharge capacity of the battery varies with the current, ambient temperature, and storage conditions. For more detail, please inquiry HCB.)

Pulse discharge current 50mA
(Maximum pulse discharge current is 50mA. Discharge capacity of the battery will change with the pulse characteristics and ambient temperature as well as storage situation. For more detail, please inquiry HCB.)

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

Operating temperature range -40°C~+70°C
(Consult HCB when using batteries at temperature exceeding -20°C~+60°C.)

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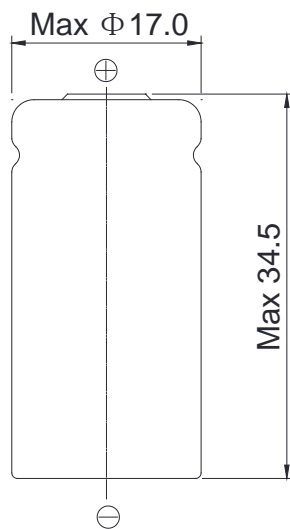


Physical characteristics

Diameter	Max 17.0mm
Height	Max 34.5mm
Typical weight	20.0g
Li metal content	0.60g

MSDS as per request
Diode (1N4007, 1N5819)
PTC (SRS175...)

Tag, wire, connector, etc. available



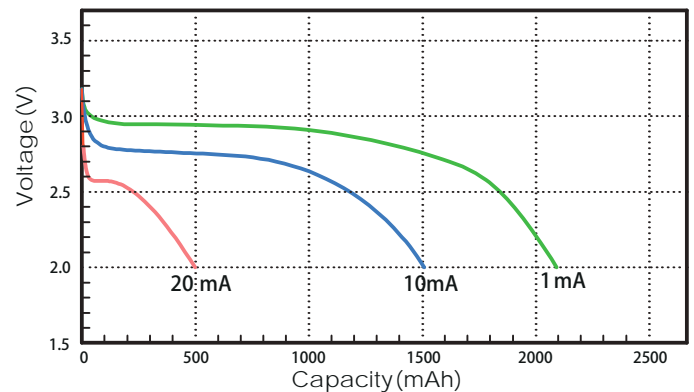
Dimensions in mm (GB1804-m)

WARNING:

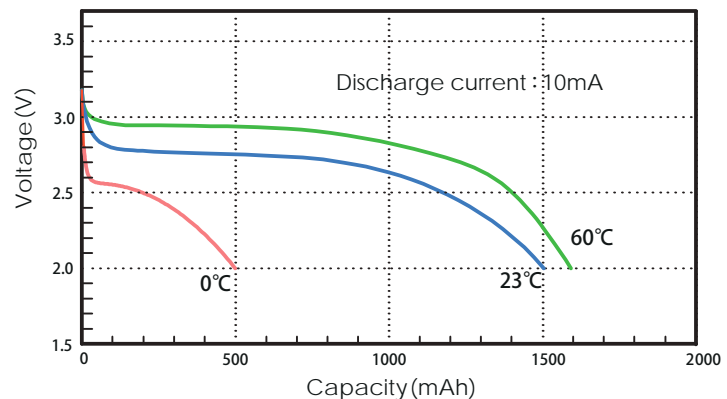
- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

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

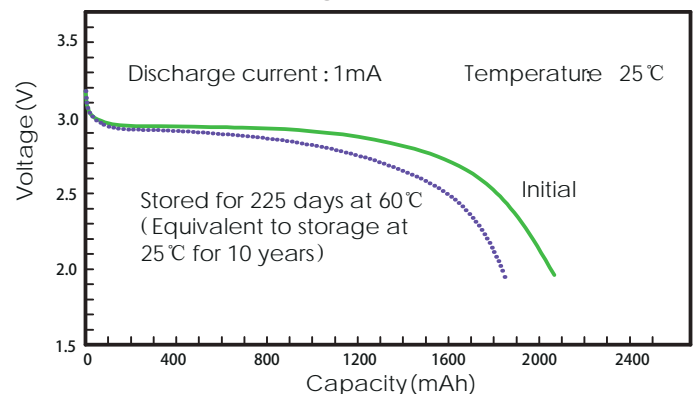
1. Typical discharge profiles at 25°C (at mid-discharge)



2. Typical discharge profiles with different temperature (at discharge stable phase)



3. Storage characteristics



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