

Primary Lithium Battery CR123A

3.0V [Li-MnO₂] 2/3A-size Spiral 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 ~+85 °C)
- Low Self-discharge Rate(less than 2% per year of storage at +20°C)

KEY FEATURES

- Optimized battery structure,full discharge capacity
- Super long endurance
- No passivation
- UL、RoHS Certified
- Easy to recover

MAIN APPLICATIONS

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

Cell References Data

Electrical characteristics

Open circuit voltage (at 23±2°C) **≥3.10V**

Nominal capacity **1500mAh**

(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 **1500mA**

(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)

Maximum pulse discharge current **3000mA**

(At +25°C, 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°C**

(for more severe conditions. Consult HCB) **≤75%RH**

Operating temperature range **-40°C~+85°C**

(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult HCB)

HCB BATTERY CO., LTD

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No.: HCB-MKT.PM-S[V2.0 2018 02]

Primary Lithium Battery CR123A

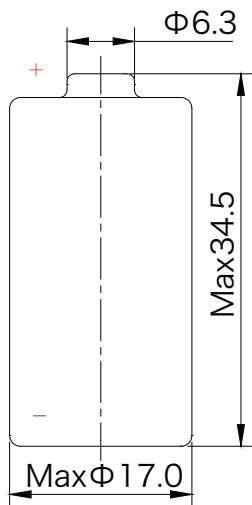


3.0V [Li-MnO₂] 2/3A-size Spiral cell

Physical characteristics

Diameter(max)	17.00mm
Height(max)	34.50mm
Typical weight	20.0g
Li metal content	0.53g

MSDS as per request
Diode(1N4007, 1N5819)
PTC(SRS175...)
Tag,wire,connector,etc.available

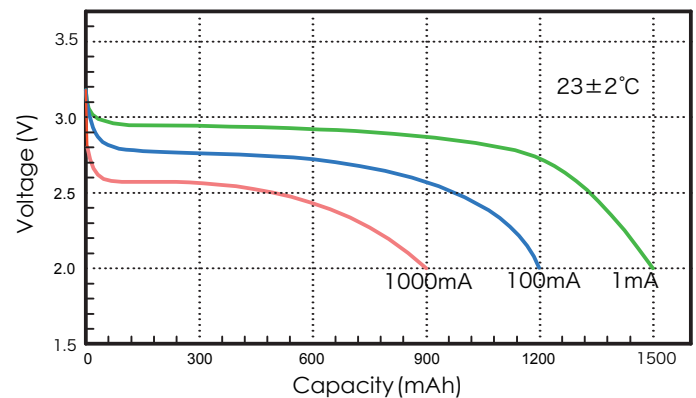


Dimensions in mm (GB1804-m)

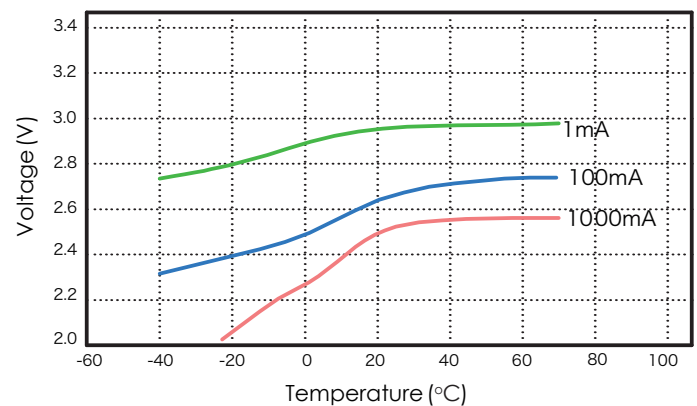
WARNING:

- 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

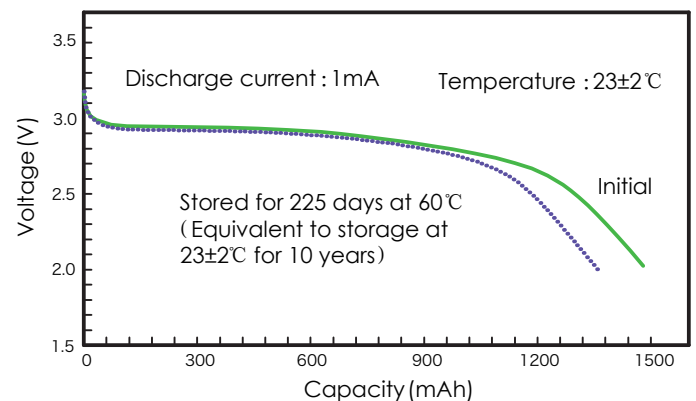
1. Typical discharge profiles at 23±2°C
(at mid-discharge)



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



3. Storage characteristics



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