We Power Your Technology

Primary Lithium Battery
CP502525

3.0V [Li-MnO_2]



BENEFITS

- High Voltage Response, Stable During Most of the Lifetime of the Application
- Energy Density up to 830Wh/L
- Wide Operating Temperature Range (-40℃~+70℃)
- 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 +25°C)	≥3.10V
Nominal capacity	550mAh

(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	200mA

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

Maximum pulse discharge current	400mA

(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. 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

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

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

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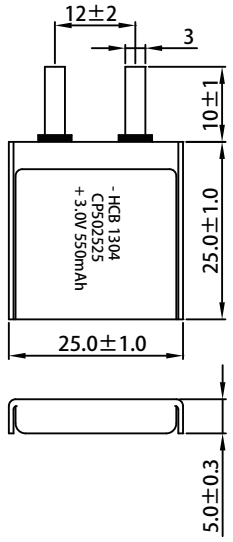
Physical characteristics	
Width	25.0±1.0mm
Height	25.0±1.0mm
Thickness	5.0±0.3mm
Typical weight	4.5g
Li metal content	0.24g

MSDS as per request

Diode (1N4007, 1N5819)

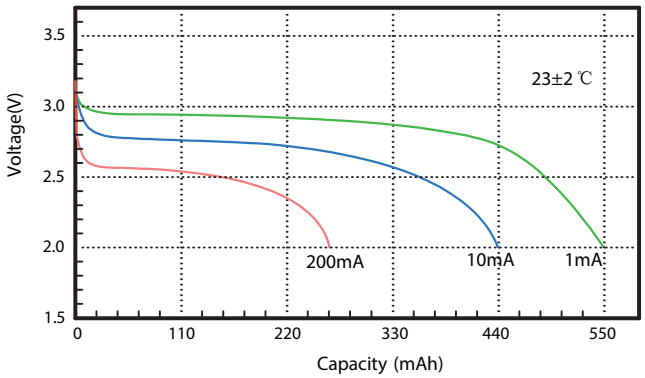
PTC (SRS175...)

Tag, wire, connector, etc. available

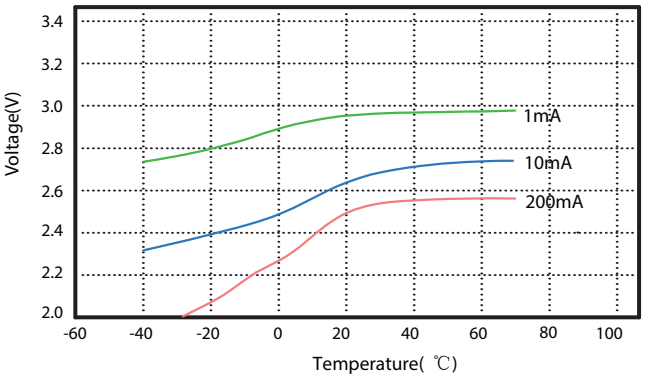


Dimensions in mm（GB1804-m）

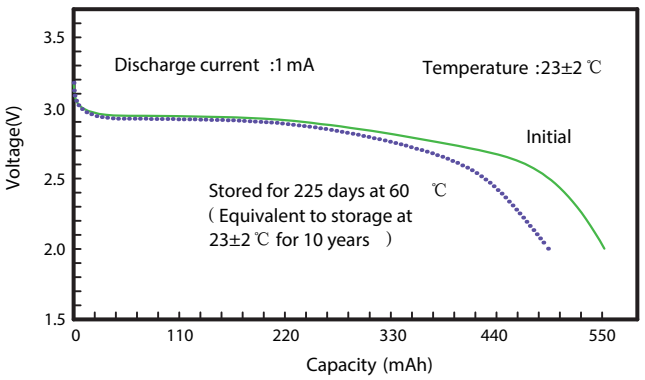
1. Typical discharge profiles at 23±2°C
(at mid-discharge)



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



3. Storage characteristics



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/specif -ications are subject to modification withour notice.
Contact HCB for the latest information

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