

# Primary Lithium Battery

## CR123A

3.0V [Li-MnO<sub>2</sub>] 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 ~+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
- UL, RoHS Certified

### MAIN APPLICATIONS

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

### References Data

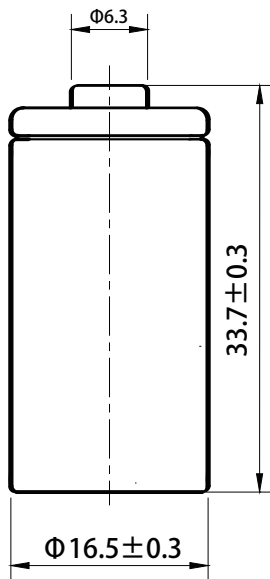
#### Electrical characteristics

Open circuit voltage (at 23±2°C)	≥3.10V
Nominal capacity	1600mAh
(At +25°C, battery discharged at continuous current 5mA 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
(Maximum pulse discharge current is 3000mA. Discharge capacity of the battery will change with the pulse characteristics and ambient temperature as well as storage situation. For more detail, please inquiry Akyga battery)	
Storage (recommended)	≤+30°C
(For more severe conditions. Consult Akyga battery)	
	≤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 Akyga battery.)	

## Physical characteristics

Diameter	16.5±0.3mm
Height	33.7±0.3mm
Typical weight	20.0g
Li metal content	0.55g

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



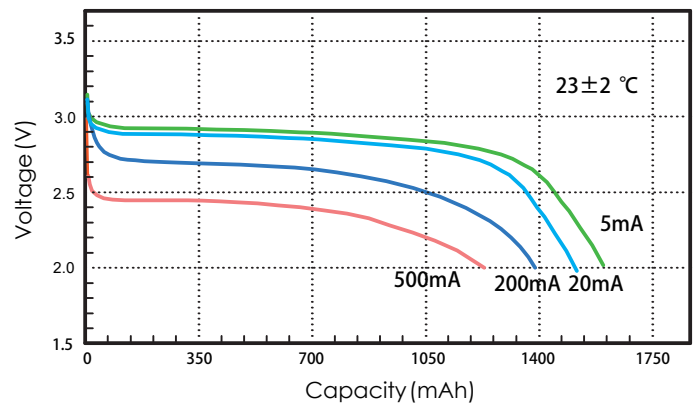
Dimensions in mm (GB1804-m)

## WARNING:

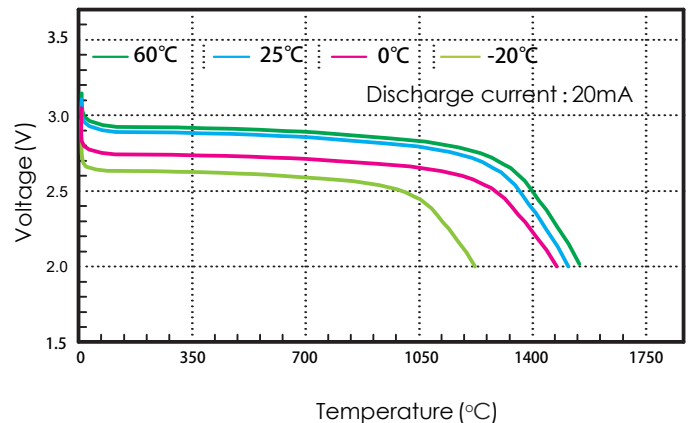
- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

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 Akyga battery for the latest information

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

