

Lithium Battery, 3V

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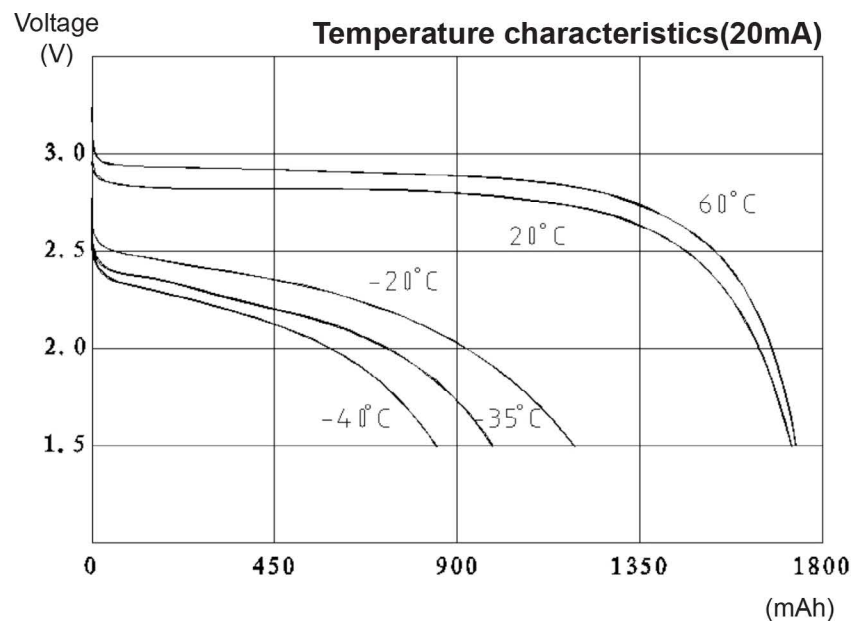
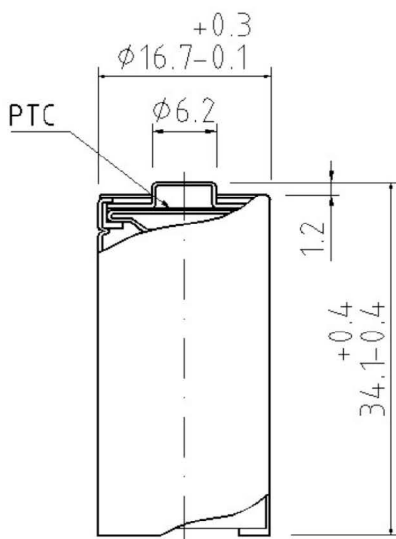
**RoHS
Compliant**



Specifications

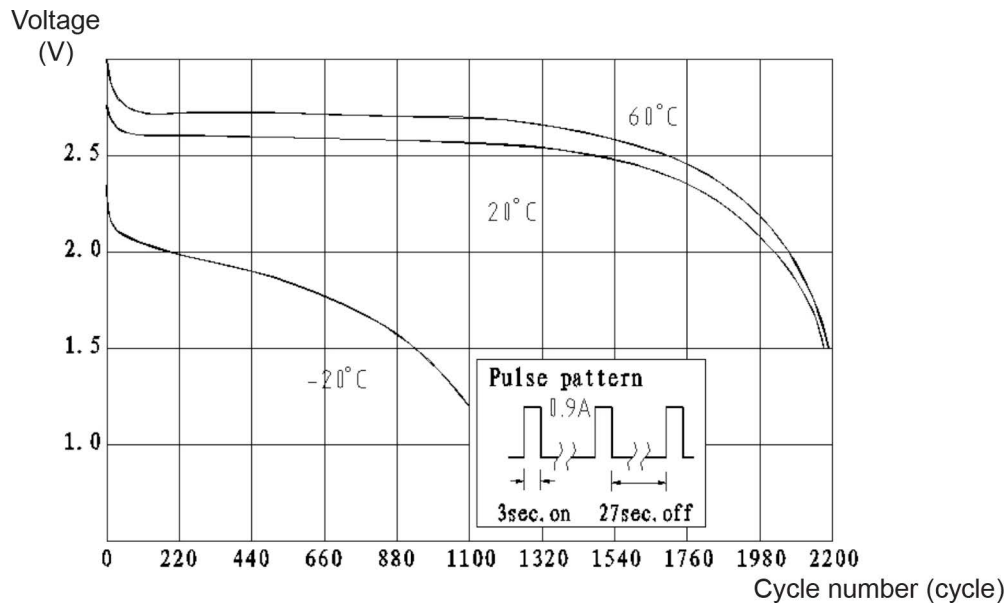
Model	: MCPCR123A
Nominal Voltage	: 3V
Nominal Capacity	: 1700mAh
Standard Discharge Current	: 20mA
Dimension	: Ø 16.7 × 34.1mm
Weight	: 15.8g
Temperature range	: -40°C to 60°C

Drawing

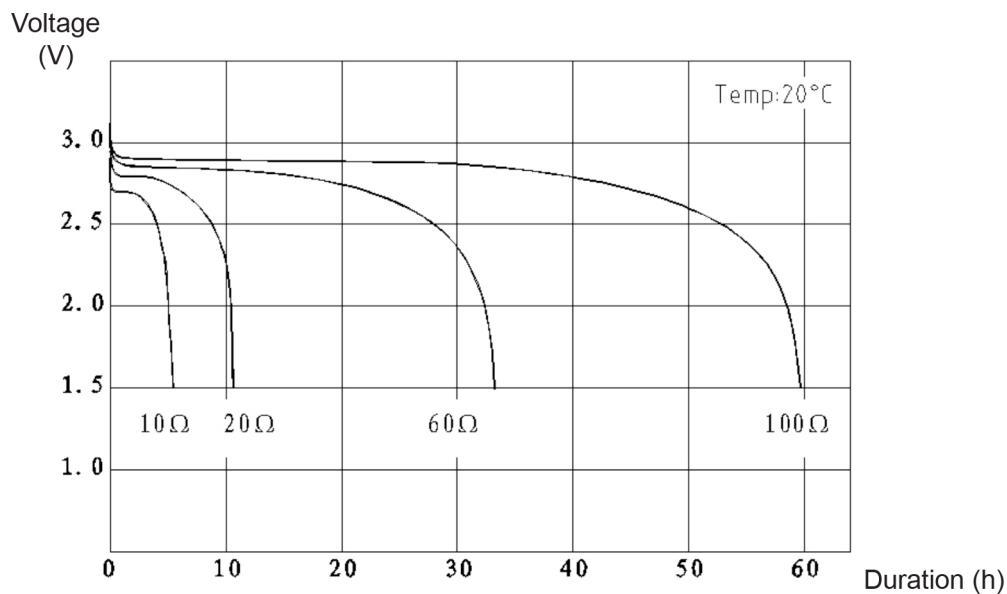


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Pulse discharge characteristics



Typical discharge characteristics



Precautions for use

- 1) A battery shall not be stored at temperatures in excess of 45°C. Storage at less than 30°C is recommended. Storage at less than -40°C can deform the plastic parts and may cause a leakage. To prevent self-discharge caused by corrosion, or decrease of insulation, humidity during storage shall be less than 70%.
- 2) The battery has an explosion-resistant construction. But the following cautions should be taken because combustible materials such as lithium metal and organic electrolytes are contained in the battery.
 - Do not use except in applicable models or equipment.
 - Do not connect more than three cells in a series.
 - Do not mix different types (chemistries) of batteries.
 - Do not short circuit.
 - Do not dispose of in fire.
 - Do not charge.
 - Do not disassemble.
 - Do not connect the wrong polarity (+,-)
- 3) Keep away from the heat source of flame.
- 4) The battery shall not be washed by an ultrasonic wave washer.

Specifications

Model Number	MCPCR123A
Nominal Voltage	3 V
Nominal Capacity	1700 mAh (Nominal capacity is based on standard discharge current and cutoff Voltage down to 1.5V at 20±5°C)
Standard Discharge Current	20 mA
Max. Continuous Discharge Current	1500 mA
Construction	
Appearance, Dimensions	There shall be no noticeable deformation. The dimensions shall be according to the attached drawings.
Weight	Approx. 15.8g
Performance	
Open Circuit Voltage	Min. 3 V
Duration 1. (at 20±2°C)	
Pulse Discharge Conditions	Population Mean ≥ 2000 cycles
Pulse Current	900 mA
One Cycle	3 seconds on, 27 seconds off
Cut Off V.	1.55 V
Duration 2. (at -20±2°C)	
Pulse Discharge Conditions	Population Mean ≥ 1100 cycles
Pulse Current	900 mA
One Cycle	3 seconds on, 27 seconds off
Cut Off V.	1.2 V
Temperature Range	Discharge -40 to 60°C Storage -20 to 45°C

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Model Number	MCPCR123A
Leakage Resistance	The battery shall not show leakage or salting which harms performance.
PTC (Positive Temperature Coefficient) Device Performance	
Appearance	There shall be no noticeable deformation and/or scratches
Resistance	The resistance shall be between 10 to 70 mΩ (no load). When 5 A flows, the resistance shall be more than 10 Ω before 80 seconds.
Test Conditions, Measuring Instruments and Measuring Methods	
Test Conditions	If not otherwise specified, Temperature: 25±5°C Humidity: 65±10%

Part Number Table

Description	Part Number
Lithium Battery, 3V, 1700mAh	MCPCR123A

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