

CR123A Crimp Seal 2/3 A

Technical Datasheet



Technical Specifications

Part No	CR123A
Cell Type	Primary, non-rechargeable
Chemistry	Lithium / manganese dioxide
Voltage Range	1.5V to 3.3V
Nominal Voltage	3.0V
Typical Capacity¹	1500mAh
Max. Continuous Discharge	1000mA
Max. Pulse Discharge	Up to 2000mA for up to 15 seconds @ 50% SoC (life and temperature dependent)
Energy Rating	4.5Wh
Energy Density	
Gravimetric	281Wh/kg
Volumetric	575Wh/L
Weight	16g
Operating Temperature	-20°C to 70°C
Storage Temperature²	-20°C to 45°C
Exterior/Housing	Elastomeric wrapped, Ni plated steel
Terminals/Connector	Ni plated steel nub and flat contacts
Size (maximums)	Length: 34.5mm Diameter: 17.0mm
Certifications	IEC 60086-4 (CB ref. pending) UL 1642 (file no. MH30127) UN 38.3
Safety	This battery contains a Positive Temperature Coefficient (PTC) safety device to limit current during short circuit conditions
Transportation³	Excepted Dangerous Goods UN3091: Packed with or contained in equipment Air Shipment: Packing Instruction 969 and 970, Section I Class 9 Dangerous Goods UN3090: Bulk shipment Air shipment: Packing Instruction 968, Section IB
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015 and ISO 13485:2016 registered. Its products are listed under the Component Recognition Program of Underwriters Laboratories (UL) and have passed UN transportation testing, which is required for international transportation of all lithium batteries.

Notes

- Discharged using a 10mA load to 2.0V @ 23°C.
- Cells should be stored in temperatures less than 30°C for a shelf-life of ten years.
Recommended Storage Conditions: Temperatures 5°C to 35°C and humidity <70% RH (to prevent self-discharge caused by corrosion or decrease of insulation). Storage at <-20°C can deform the plastic parts and may cause leakage.
- For bulk shipments by air that are no more than eight cells and one package, this cell is Excepted Dangerous Goods and can be shipped under Packing Instruction 968, Section II.

Features

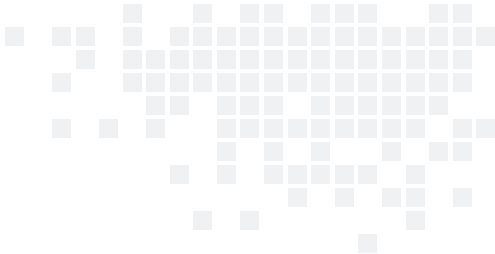
- Lightweight cells with stable output voltages
- High energy density
- Wide working temperature range
- Low self-discharge
- High reliability
- 10 year shelf-life

Typical Applications

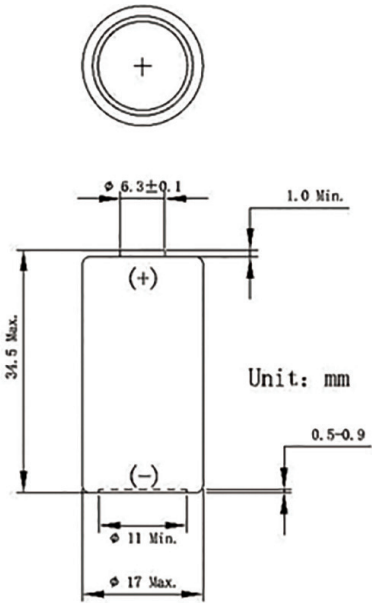
- Safety and security systems
- Metering systems
- LED flashlights
- Internet of Things (IoT) devices

Replacement For

- CR123A
- CR17345
- EL123A
- DL123A
- PL123A
- RL123A
- K123LA
- VL123A



Dimensions



Performance Graphs

