



MODEL CR123A
Lithium Manganese Dioxide
(Li-MnO₂) Battery

(International size reference: CR17345)

ELECTRICAL CHARACTERISTICS

(Typical values for cells stored for one year or less, less at +30°C)

■ **Nominal capacity** **1,450 mA**
 (At 10.0 mA, +23°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

■ **Nominal voltage** **3.0 V**

■ **Maximum recommended continuous current** **1,500 mA**
 (Higher currents possible, consult OmniCel.)

■ **Pulse capability:** varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult OmniCel.

■ **Maximum pulse capability** **3,000 mA**

■ **Storage** (recommended) **+30°C max.**
 (possible without leakage) **-55° / +120°C**

■ **Operating temperature range** **-40° / +85°C**
 (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

KEY FEATURES

- ✓ High and stable operating voltage
- ✓ Low self discharge rate (less than 2.5% after 1 year of storage at +20°C)
- ✓ Stainless steel container
- ✓ Hermetic glass-to-metal sealing
- ✓ Non-flammable electrolyte
- ✓ Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- ✓ Non-restricted for transport
- UL Underwriters Laboratories (UL) Component Recognition (File Number MH 47566)

MAIN APPLICATIONS

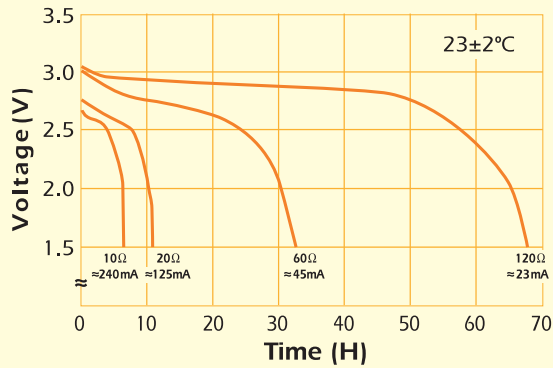
- ✓ Utility metering
- ✓ Military electronics
- ✓ Alarms and security devices
- ✓ Memory back-up
- ✓ Tracking systems
- ✓ Automotive electronics
- ✓ Professional electronics ... etc.

⚠ WARNING:

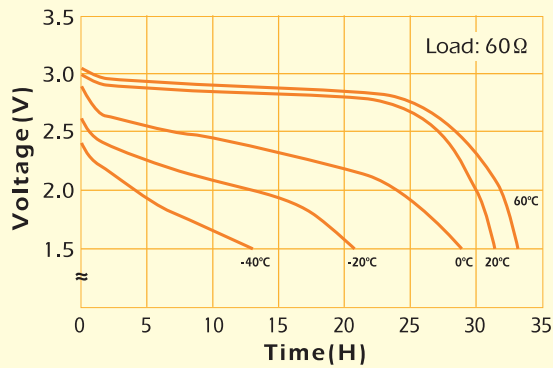
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 212°F (100°C), incinerate, or expose contents to water. Do not solder directly to the cell, use tabbed cell instead.

Note: Information in this document is subject to change without notice. Any representations in this data sheet concerning performance are for informational purpose only and are not construed as warranties, either expressed or implied, of future performance.

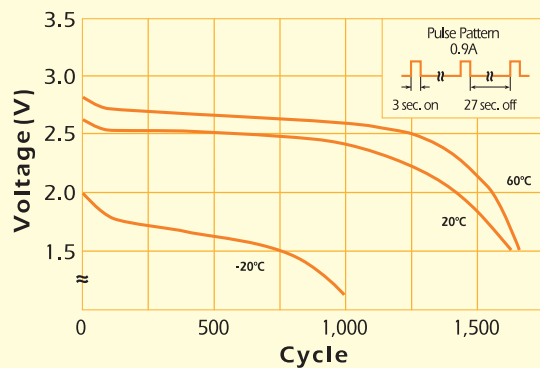
Discharge Characteristics



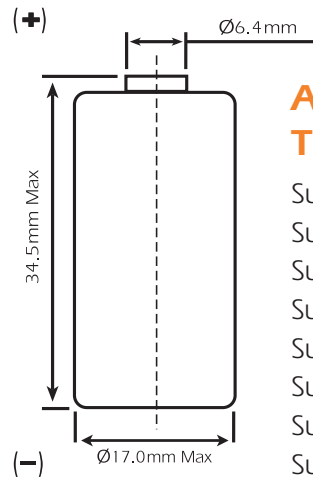
Temperature Characteristics



Load-Capacity Characteristics



CR123A



AVAILABLE TERMINATIONS

Suffix-/S	Standard
Suffix-/T	Solder Tabs
Suffix-/2PT	Polarized Tabs
Suffix-/3TP	Polarized Tabs
Suffix-/3PT	Polarized Tabs
Suffix-/3PF	Polarized Tabs
Suffix-/3FP	Polarized Tabs
Suffix-/4PF	Polarized Tabs

[View available terminations](#)

Physical Characteristics

■ Diameter (max)	17.0 mm (0.669")
■ Height (max)	34.5 mm (1.358")
■ Typical weight	20 g (0.705 oz)
■ Lithium content	0.36 g (0.012 oz)

WARNING:

- Forbid short-circuit, charge between "+" and "-".
- Forbid over-discharge, fire and damage.
- Finish soldering in 5 seconds at 200° / 250°C.
- Take out the battery when discharged to cut-off voltage and correctly dispose.
- Do not recharge, short-circuit, disassemble.
- Do not inversely connect the (+), (-).