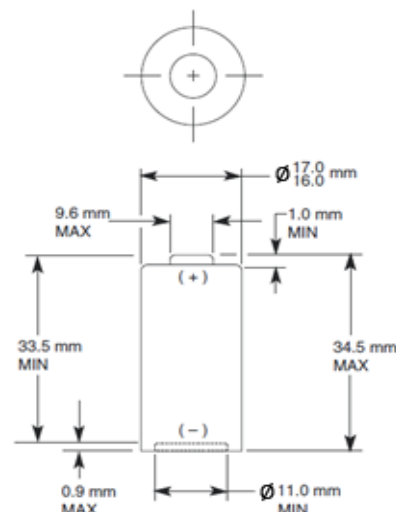


LITHIUM-MANGANESE DIOXIDE BATTERY



Size: CR123A



Dimensions shown are IEC standards

KEY FEATURES

- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
- Safety: IEC 60086-4
- Transport: UN 38.3
- RoHS and REACH compliance
- Quality: ISO 9001, Duracell World Class Continuous Program

ELECTRICAL CHARACTERISTICS

▪ Nominal capacity (100 Ω Cont., 2V cut-off)	1550 mAh
▪ Typical Voltage (at + 20 °C)	3.2-3.3 V
▪ Standard Continuous Discharge Current	20 mA
▪ Maximum Continuous Discharge Current	60 mA
▪ Maximum Abnormal Charge Current	25 mA
▪ Nominal Energy	4.65 Wh
▪ AC Impedance @ 1kHz	250 mΩ

PHYSICAL CHARACTERISTICS

▪ Typical weight	17.0 g (0.60 oz.)
▪ Li metal content	approx. 0.56g

OPERATING & STORAGE CONDITIONS

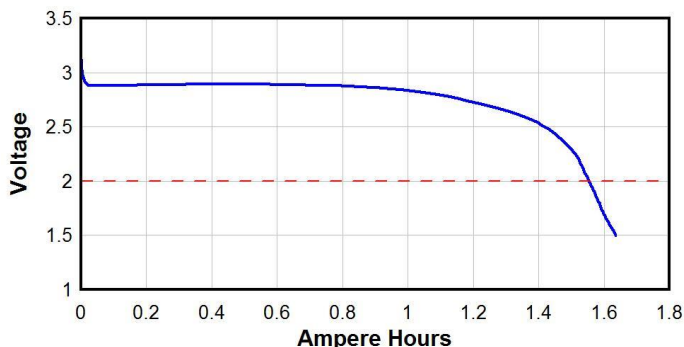
▪ Operating temperature range	-20°C to 75°C (-4°F to 167°F)
▪ Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86°F)

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

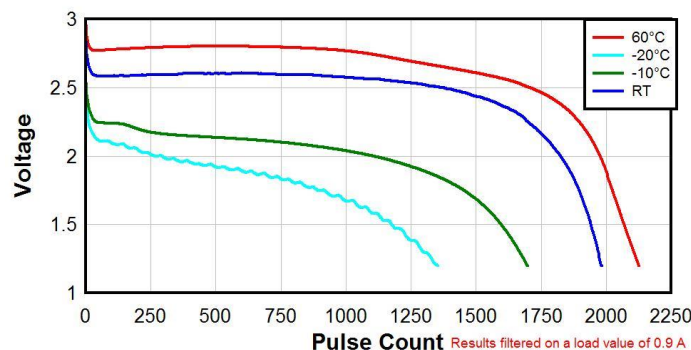
This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

TYPICAL PERFORMANCE

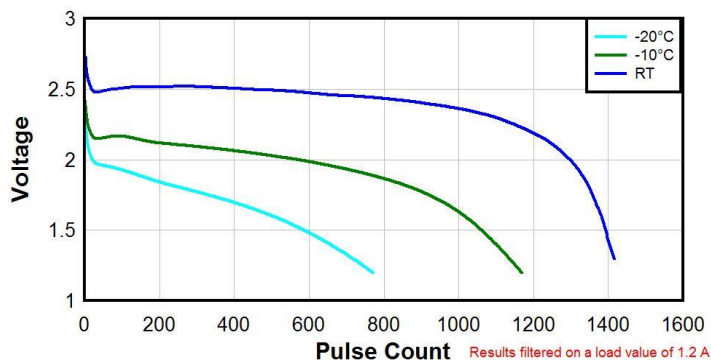
Capacity Testing
100 Ohm Continuous to 2.0V



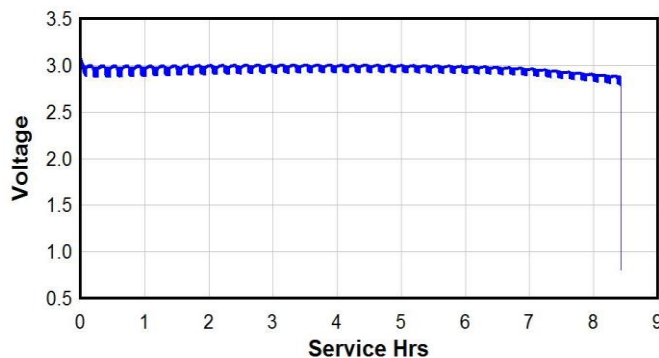
0.9 Amp, 3 sec ON / 27 sec OFF
@ Various Temperatures



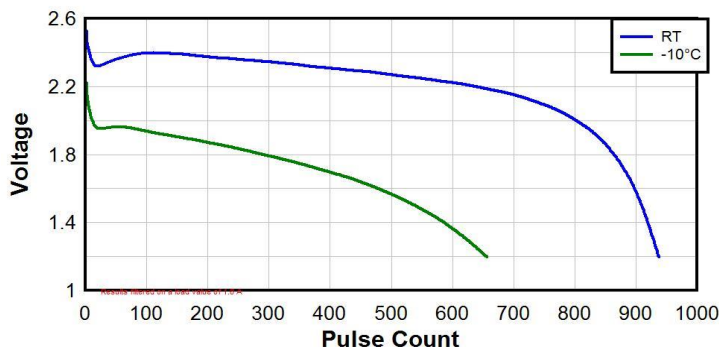
1.2 Amp 3 sec ON / 7 sec OFF
@ Various Temperatures



Pulse Testing
50 mA Intermittent to 1.8V



1.8 Amp 3 sec ON / 7 sec OFF
@ Various Temperatures



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Procell Professional Batteries
Berkshire Corporate Park
Phone: 1-800-544-5454 (Toll-free)

www.procell.com

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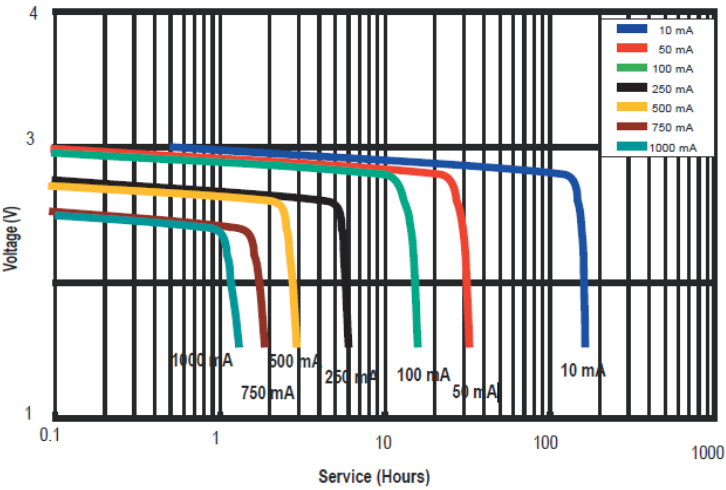
TYPICAL APPLICATIONS

- Cameras
- Security devices (sensors, monitoring cameras)
- Smoke Detectors
- Wireless Sensors
- Door locks
- High Intensity Flashlights
- Laser Sights

WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, heat above 100 °C (212 °F), incinerate, or expose contents to water

Continuous Discharge
RT to 1.55 Volts



60086-4 © IEC:2007 EDITION 3.0

Test	Test designation	Observation
A	Altitude	Pass
B	Thermal cycling	Pass
C	Vibration	Pass
D	Shock	Pass
E	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
H	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

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