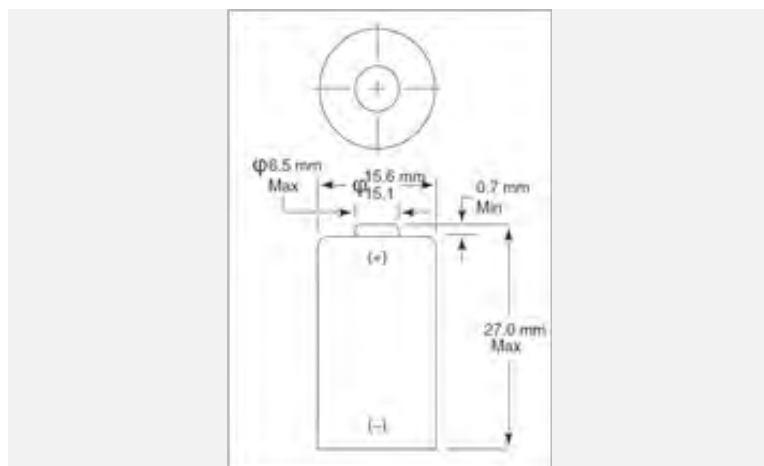


## LITHIUM-MANGANESE DIOXIDE BATTERY



Size: CR2



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 $\Omega$ Cont., 2V cut-off)	920 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	20 mA
Nominal Energy	2.55 Wh
AC Impedance @ 1kHz	300 m $\Omega$

### PHYSICAL CHARACTERISTICS

Typical weight	11 g (0.39 oz.)
Li metal content	approx. 0.30g

### OPERATING & STORAGE CONDITIONS

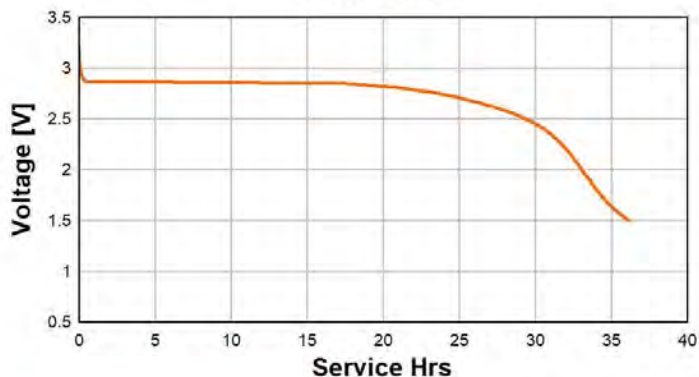
Operating temperature range	-20°C to 75°C (-4°F to 167°F)
Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86°F)

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.

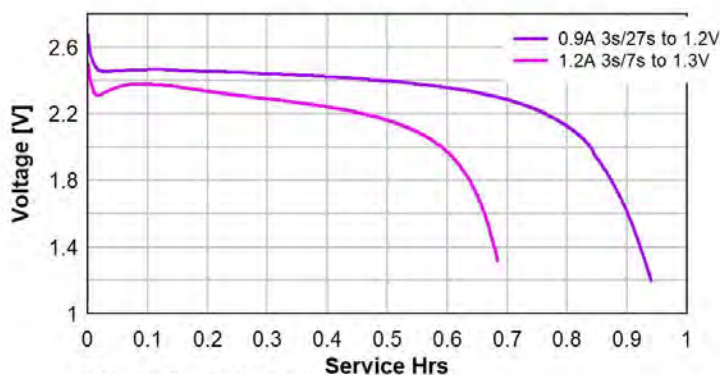
This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

**TYPICAL PERFORMANCE**

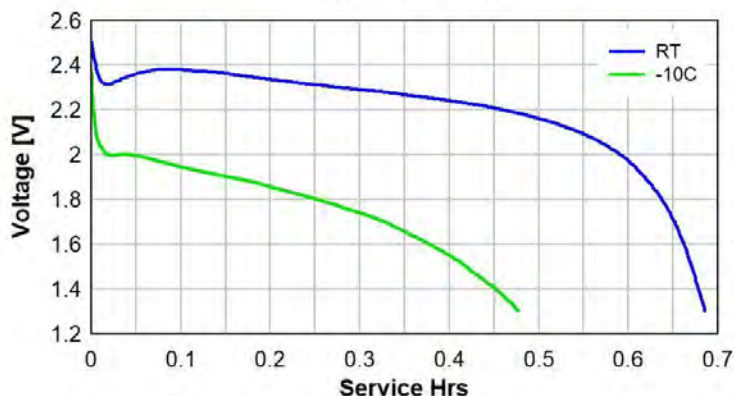
**Rated Capacity**  
100  $\Omega$  cont to 1.5V



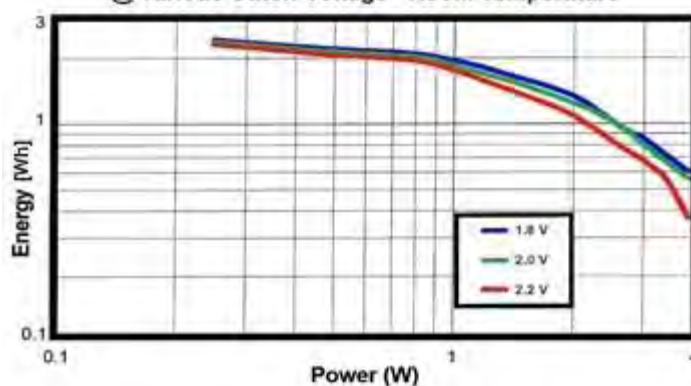
**Pulse Discharge**



**Pulse discharge at various Temperatures**  
1.2A 3s/7s to 1.3V

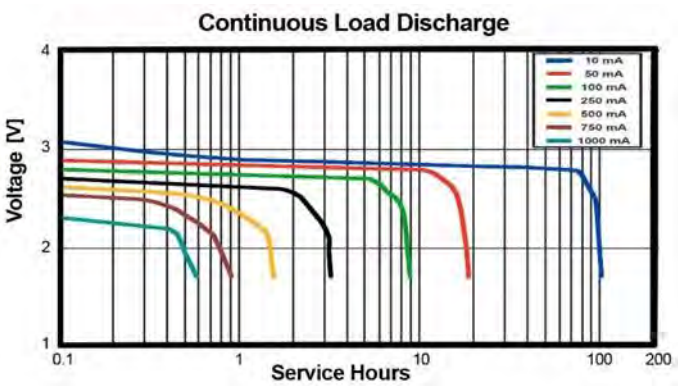


**Delivered Energy vs. Power Drain**  
@ Various Cutoff Voltage - Room Temperature



TYPICAL APPLICATIONS

- Cameras
- Security devices (sensors)
- Smoke Detectors
- Wireless Sensors
- Remote Controls
- High Intensity Flashlights
- Laser Sights



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

WARNING

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