



# WAMA ELECTRONICS TECH CO.,LTD

## 1. 【SCOPE】

This specification applies to the following 3.0V lithium battery CR123A made by WAMA ELECTRONICS TECHNOLOGY CO.,LTD

**Note: Polyswitch(PTC) is inside the cell.**

## 2. 【RATINGS】

TABLE I :

ITEM	UNIT	SPECIFICATIONS	CONDITIONS
Nominal voltage	V	3.0	Standard discharge
Nominal capacity	mAh	1300	Standard discharge
Instantaneous short-circuit current	A	≥10	Time≤0.5 sec.
Maximum Continuous Discharge Current	mA	1000mA	
Maximum Pulse Discharge Current	mA	3000mA	3000mA 3sec. on/27sec. off
Off-load voltage	V	≥3.0	
Standard weight	g	16	Unit cell
Ambient Temperature	°C	-40~60	
Relative humidity		65±20%	
Shell Life	Year	≥5	Ambient Temperature 20~25°C

## 3. 【PERFORMANCE AND TEST METHODS】

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20°C~25°C; environmental humidity, 65±20%. Please refer to Table II.

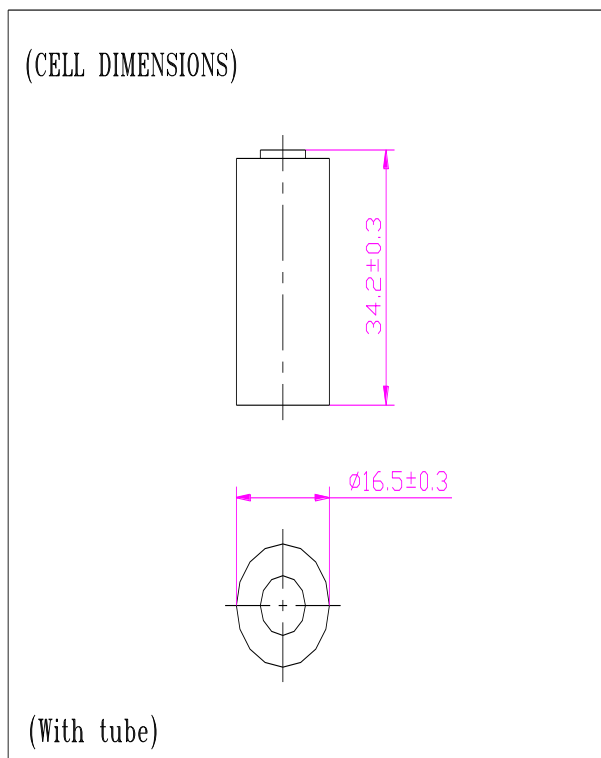
## 4. 【SUGGESTIONS AND CAUTIONS】

- 4.1 Install batteries correctly.
- 4.2 Ensure the contact points to be clean and conductive.
- 4.3 Do not mix different types, different brands batteries to serve together.
- 4.4 Do not heat, not recharge the battery.
- 4.5 Do not dispose of the batteries in fire.
- 4.6 Keep away from the small children, if swallowed promptly see doctor.
- 4.7 Pay attention to the producing date.

TABLE II:

No	ITEM	TEST METHODS	STANDARD	
			Diameter	Height
1	Dimensions	Using vernier caliper (accuracy $\geq$ 0.02) while avoiding short-circuit	16.5 $\pm$ 0.3mm	34.2 $\pm$ 0.3mm
2	Off-load voltage	Using multimeter (accuracy $\geq$ 0.25%) internal resistance 15 $\Omega$ /5sec.	$\geq$ 2.6V	
3	Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	10A	
4	Appearance	Eyeballing	Bright, clean, no rust, no leakage, no flaw	
5	Capacity	Continuously discharge under 10mA current 2.0v end-voltage at the temperature 20~25 $^{\circ}$ C, humidity at 65 $\pm$ 20%	1300mAh	
6	Vibration test	Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability	
7	Leakage at high temperature	Stored under temperature (45 $^{\circ}$ C) for 30 days	No leakage	
8	Over discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage	

5. **【DIMENSION】**



## 6. 【DISCHARGE CHARACTERISTICS】

