

WAMA ELECTRONICS TECHNOLOGY CO.,LTD

ALKALINE MANGANESE BATTERY

1.Other name for the same type

L1028, 23L, VR22

2.Chemical System

Alkaline Zinc—Manganese battery (+) Zn|KOH|MnO₂(-)

3.Nominal Voltage: 12V

4.Average Weight: 7.1 g

5.Nominal Capacity: 47 mAh

(continuous discharge at 20±2°C under 0.10mA discharge current to 7.2V voltage)

6.Appearance: Metal Can

7.Electrical Characteristics:

7.1 Off—load Voltage:

New Battery≥12.10V

After 12 Months (Room Temp.)≥12.00V

7.2 Discharge Time(continuous discharge at 20±2°C under 20KΩ discharge load to 7.2V voltage)

New Battery≥80hours

After 12 Months (Room Temp.)≥72hours

7.3 Over—discharge Characteristic

Condition: 20KΩcontinuous discharge at 20±2°C & 65±20%R.H.

Period: 48hours

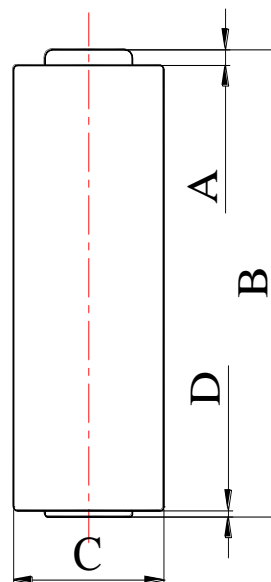
Characteristic: No deformation is over 0.20mm of the nominal dimension,
and no visual electrolyte leakage

8. Dimensions:

Nominal Dimension: $\varnothing 9.90 \times 27.90$

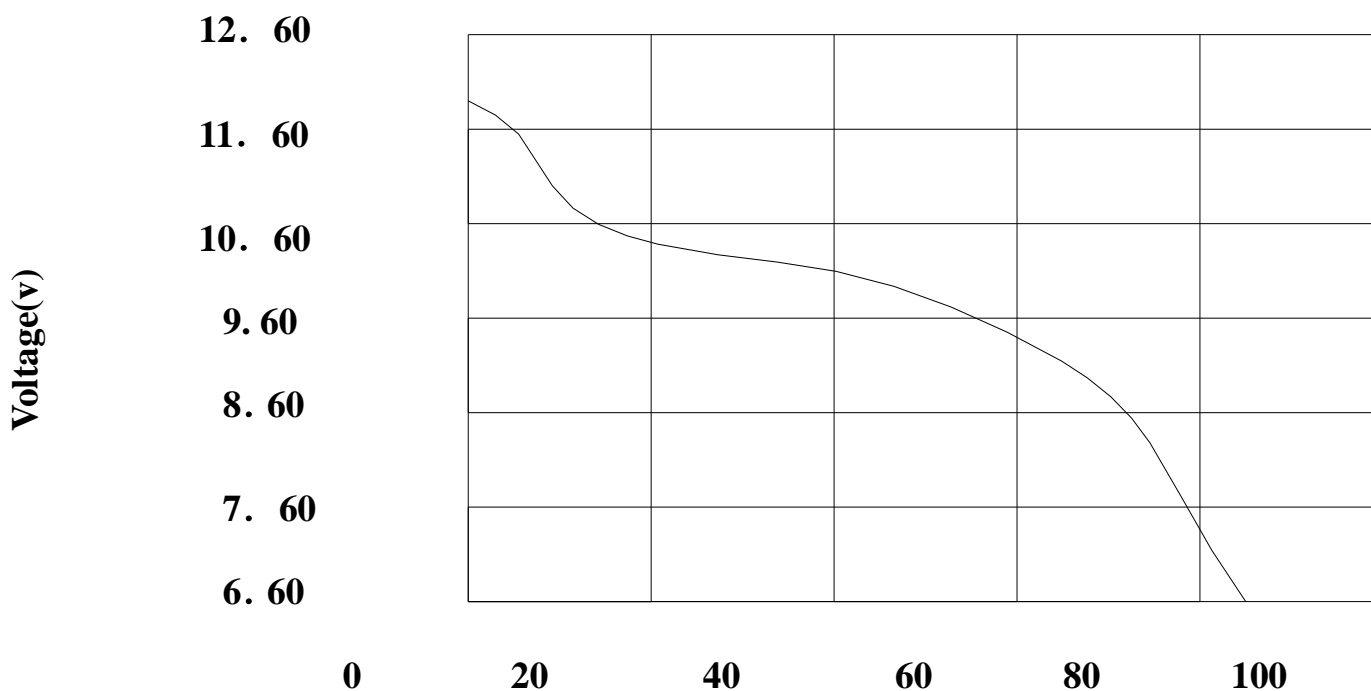
(Unit: mm)

Dimension	Range
A(ref.)	0.80~1.2
B	27.90 ± 0.40
C	9.80 ± 0.15
D(ref.)	0.10



9. Typical Discharge Characteristics

(continuous discharge at $20 \pm 2^\circ\text{C}$ under $20\text{K}\Omega$ discharge load to 7.2V voltage)



10. Mark:

The following message will be printed or stamped on the body of the battery:

10.1 Designation: A23、 L1028 etc.

10.2 Manufacturer's name: WAMA ELECTRONICS TECHNOLOGY CO.,LTD

10.3 Trademark: no

10.4 Nominal Voltage: 12V.

10.5: Pole: “+”.

10.6 Warning: May explode or leak if charged or disposed of in fire.

11. Caution for use :

11.1 There are risks of electrolyte leakage or causing damage to the device if the battery is charged;

11.2 The battery shall be installed with “+”and “-” in correct position;

11.3 Short-circuiting and heating the battery、 disposing of the can must not be permitted.