



Zinc-Silver Oxide/Manganese Dioxide Battery

VER:

DATE:

**1.5V**

Zinc-Silver Oxide/ Manganese Coin type Battery

## **Specification**

**50mAh**

**Model: SR45**

Prepared By/Date	Checked By/Date	Approved By/Date

### **Important Notice**

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## PRODUCT SPECIFICATION

**1. Applicability:** This specification is applicable to **SR45** coin type zinc-silver oxide/manganese dioxide battery.

### **SPECIFICATION**

**1. Cross Reference :**

IEC	JAPAN	Ray-O-Vac	U.S.A SWITZERLAND	GERMANY	H.K PRODUCTS
SR45	SR936SW	RW33	394	V394	SG9

**2. Chemical System :** Zinc-Silver Oxide/ Manganese Dioxide (Potassium Hydroxide Electrolyte )

**3. Nominal Voltage :** 1.55V

**4. Standard Capacity :** 50mAh ( continuously discharge at 20±2°C under 15kΩ load to 0.9V end-point voltage )

**5. Approximate Weight :** 0.92g

**6. Dimensions & Structure :** Dimensions & structure of the cell are shown in the attached Fig. 1.

**7. Terminal Materials :**  
Negative : Ni plated/Fe/Cu plated or gold plated steel  
Positive : Ni plated steel



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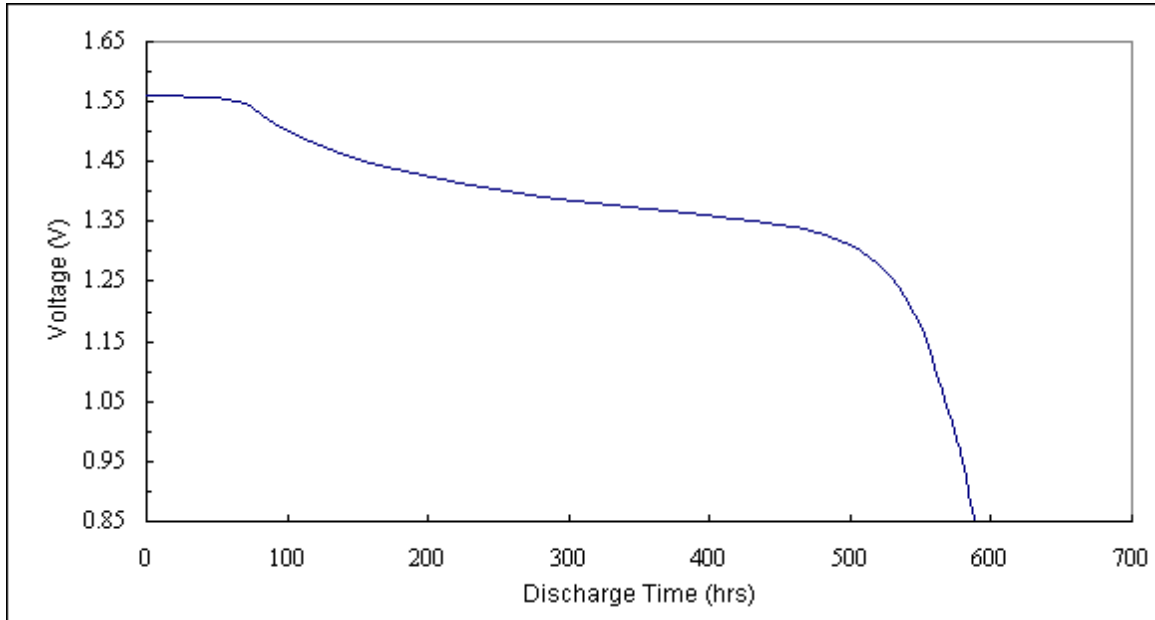
**8. Characteristics :** Characteristics of the cell are shown in the following table.

Items	Storage	Characteristics	Conditions
<b>8.1 Electric Characteristics</b>			
Open-Circuit Voltage	Initial	1.560V or higher	DC Voltmeter: The tolerance is $\pm 0.005V$ and the input resistance is $1M\ \Omega$ or more.
	After 12 months	1.550V or higher	
Closed-Circuit Voltage	Initial	1.550V or higher	DC Voltmeter : Same as above. Load Resistance : $15k\ \Omega$ , 0.8Sec.
	After 12 months	1.540V or higher	
<b>8.2 Service Output</b>			
Service Life $15k\ \Omega$ Continuous Discharge	Initial	600hrs or longer	Discharge Resistance : $15k\ \Omega$ End-Point Voltage : 0.9V
	After 12 months	540hrs or longer	
<b>8.3 Electrolyte Leakage Proof Characteristics</b>			
Electrolyte leakage on overdischarge	There are no bulging or deformation of cells in excess of maximum dimensions shown in attached Fig. 1 by 0.2mm or more. There are no visible electrolyte leakage.		Temperature : $20\pm 2^{\circ}C$ Humidity : $(65\pm 20)\%RH$ Load Resistance : $15k\ \Omega$ Overdischarge Time : 48hrs (discharge after having reached specified end-point voltage)

**9. Discharge Curve :**

Load Resistance : 15k  $\Omega$

End-Point Voltage : 0.9V



**10. Markings on Product :**

- (1) Battery Type : SR936
- (2) Brand :
- (3) Polarity : "+" at the bottom ( "--" not indicated )
- (4) Other specified markings

**11. Caution for Use :**

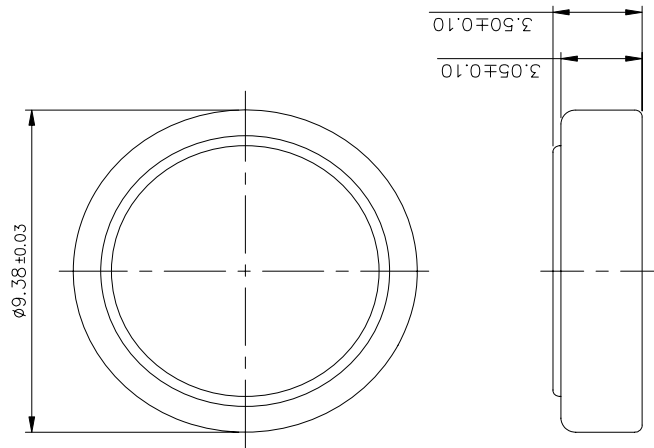
- (1) Since the button cell is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the cell is charged.
- (2) The button cell shall be installed with its "+" and "--" sign according to the instruction shown on the applied device.
- (3) Short-circuiting, heating, disposing of in fire, or disassembling the button cell shall be prohibited.

**12. Warranty :**

12 months shelf life after delivery.

SR936 DIMENSIONS & STRUCTURE

Dimensions ( in mm ) :



Structure :

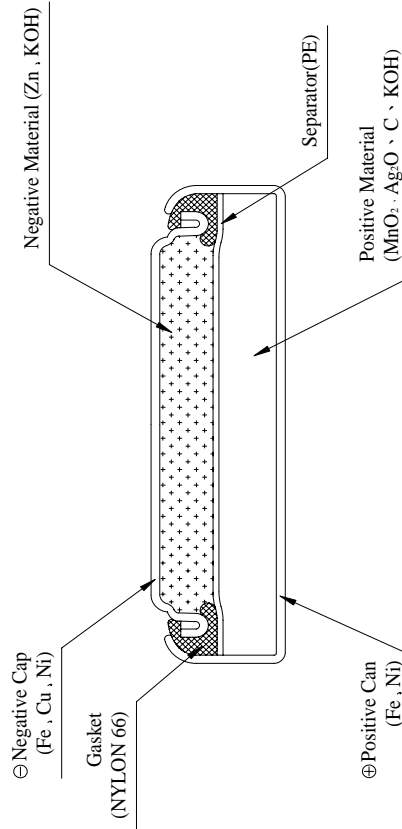


Fig. 1