



Zinc-Silver Oxide/Manganese Dioxide Battery

VER:

DATE:

1.5V

Zinc-Silver Oxide/ Manganese Coin type Battery

Specification

80mAh

Model: SR54

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

Important Notice

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PRODUCT SPECIFICATION

1. Applicability: This specification is applicable to **SR54** 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
SR54	SR1130W	RW49	389	V389	SG10

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

3. Nominal Voltage : 1.55V

4. Standard Capacity : 80mAh (continuously discharge at 20±2°C under 15kΩ load to 0.9V end-point voltage)

5. Approximate Weight : 1.10g

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
8.1 Electric Characteristics			
Open-Circuit Voltage	Initial	1.550V or higher	DC Voltmeter: The tolerance is $\pm 0.005V$ and the input resistance is $1M\ \Omega$ or more.
	After 12 months	1.520V or higher	
Closed-Circuit Voltage	Initial	1.520V or higher	DC Voltmeter : Same as above. Load Resistance : $15k\ \Omega$, 0.8Sec.
	After 12 months	1.490V or higher	
8.2 Service Output			
Service Life $15k\ \Omega$	Initial	950hrs or longer	Discharge Resistance : $15k\ \Omega$
Continuous Discharge	After 12 months	855hrs or longer	End-Point Voltage : 0.9V
8.3 Electrolyte Leakage Proof Characteristics			
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)



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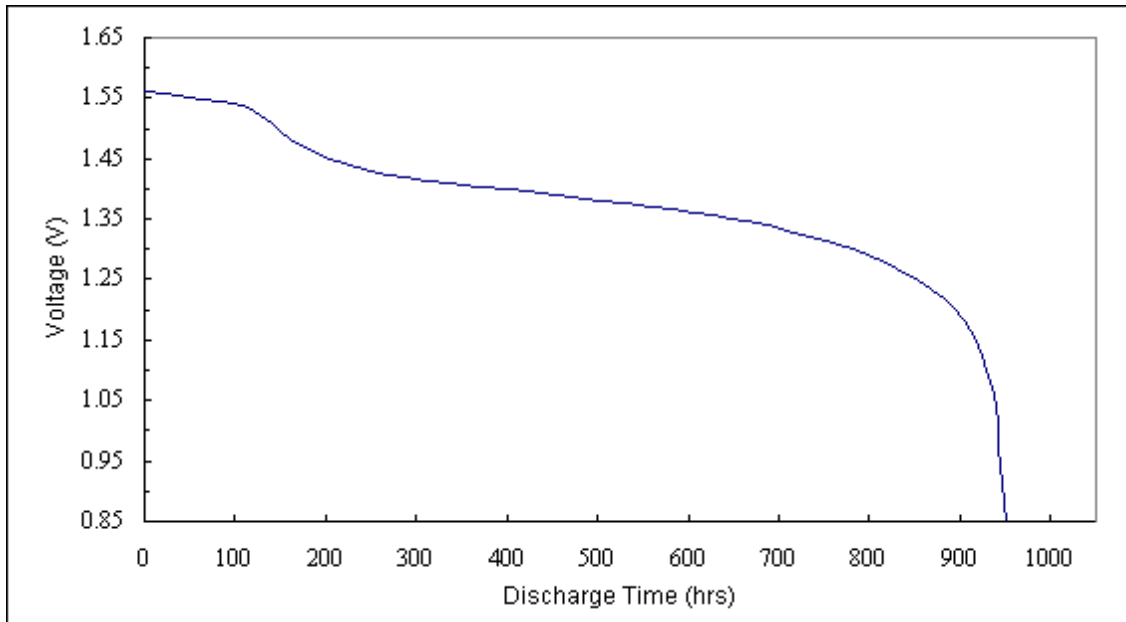
VER :

DATE :

9. Discharge Curve :

Load Resistance :15k Ω

End-Point Voltage : 0.9V



10. Markings on Product :

- (1) Battery Type : SR1131
- (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.

SRI131 DIMENSIONS & STRUCTURE

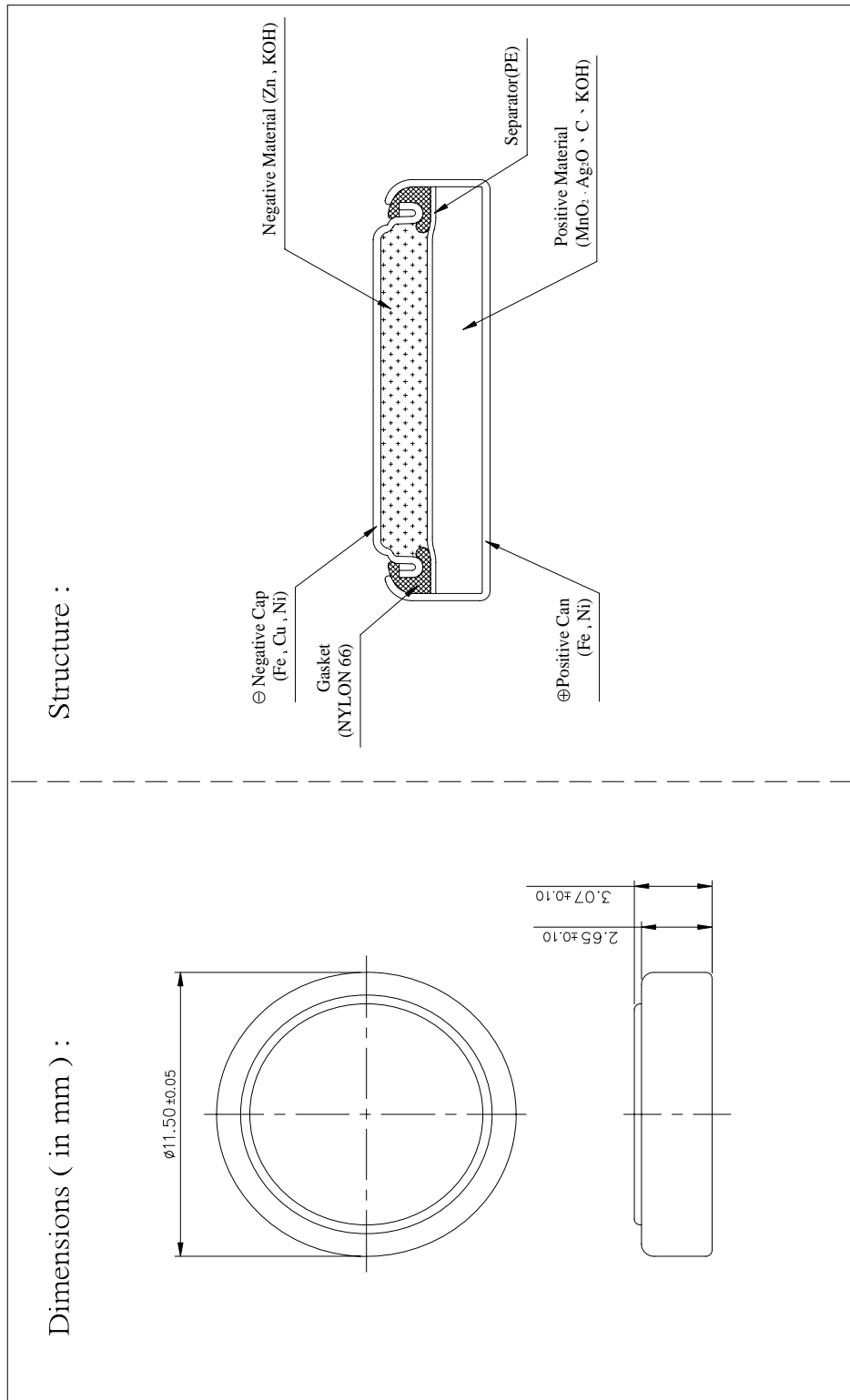


Fig. 1