

SR Silver Oxide Batteries

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



Product list

Model	Nominal Voltage (V)	Nominal Capacity (mAh)*	Nominal Discharge Current (μA)	Diameter (mm)	Height (mm)	Weight (g)	Applications
SR44W	1.55	165	200	11.6	5.4	2.2	
SR43W	1.55	125	200	11.6	4.2	1.8	
SR1130W	1.55	79	100	11.6	3.05	1.2	
SR1120W	1.55	55	100	11.6	2.05	1.0	
SR936W	1.55	75	100	9.5	3.6	1.1	
SR927W	1.55	57	100	9.5	2.73	0.8	High drain type
SR920W	1.55	39	100	9.5	2.05	0.6	
SR41W	1.55	39	50	7.9	3.6	0.7	
SR726W	1.55	28	50	7.9	2.6	0.5	
SR721W	1.55	25	50	7.9	2.1	0.45	
SR626W	1.55	28	50	6.8	2.6	0.4	
SR621W	1.55	18	50	6.8	2.15	0.3	
SR44SW	1.55	165	200	11.6	5.4	2.2	
SR43SW	1.55	110	100	11.6	4.2	1.7	
SR1136SW	1.55	100	100	11.6	3.6	1.6	
SR1130SW	1.55	80	100	11.6	3.05	1.2	
SR1120SW	1.55	55	100	11.6	2.05	1.0	
SR1116SW	1.55	29	50	11.6	1.65	0.7	
SR936SW	1.55	70	100	9.5	3.6	1.1	
SR927SW	1.55	55	100	9.5	2.73	0.8	
SR920SW	1.55	39	50	9.5	2.05	0.6	
SR916SW	1.55	26.5	50	9.5	1.65	0.5	
SR41SW	1.55	45	50	7.9	3.6	0.7	
SR731SW	1.55	36	50	7.9	3.1	0.7	
SR726SW	1.55	33	50	7.9	2.6	0.5	Low drain type
SR721SW	1.55	25	30	7.9	2.1	0.45	
SR716SW	1.55	21	30	7.9	1.68	0.3	
SR712SW	1.55	10	20	7.9	1.29	0.25	
SR626SW	1.55	28	30	6.8	2.6	0.4	
SR621SW	1.55	18	30	6.8	2.15	0.3	
SR616SW	1.55	15	20	6.8	1.65	0.3	
SR527SW	1.55	17	30	5.8	2.7	0.3	
SR521SW	1.55	14	20	5.8	2.15	0.2	
SR516SW	1.55	11.5	20	5.8	1.65	0.2	
SR512SW	1.55	5.5	5	5.8	1.25	0.14	
SR421SW	1.55	12	20	4.8	2.15	0.17	
SR416SW	1.55	8	10	4.8	1.65	0.12	
SR44	1.55	165	200	11.6	5.4	2.2	

SR43	1.55	125	100	11.6	4.2	1.8	General type
SR1130	1.55	79	100	11.6	3.05	1.2	
SR1120	1.55	55	100	11.6	2.05	1.0	
SR41	1.55	39	50	7.9	3.6	0.7	
4SR44	6.2	160	200	13	25.2	11.7	

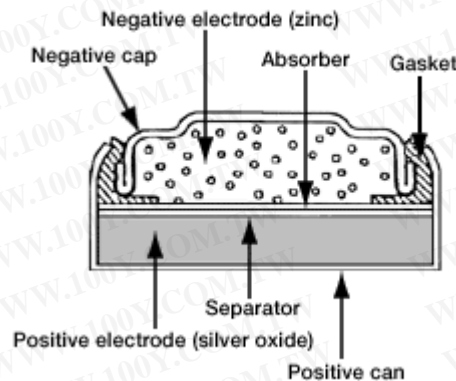
- * Nominal capacity indicates the duration until the voltage drops to 1.2V when discharged at a nominal discharge current at 20 deg. C.
- Data and dimensions are reference values only. For further details, please contact your nearest Maxell office.

MICRO BATTERY Cross Reference and Replacement Guide

Outline

Maxell is the first company in Japan to successfully market button-type silver oxide batteries. Based on many years of experience and know-how in various fields, the SR battery is suitable for precision electronic devices such as quartz watches, where high-energy density per unit volume and a stable operating voltage are required. Various product lineups are available to meet the growing need for supplying power to various types of watches, ranging from large to compact, thin models.

Cross-sectional diagram

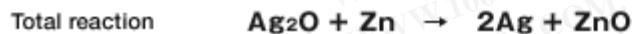


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Principle and reaction

The button-type silver oxide battery uses silver oxide (Ag_2O) as its positive active material and zinc (Zn) as its negative active material. Potassium hydroxide (KOH) (W-type) or sodium hydroxide (NaOH) (SW-type) is used as an electrolyte.

Battery Reactions



Features

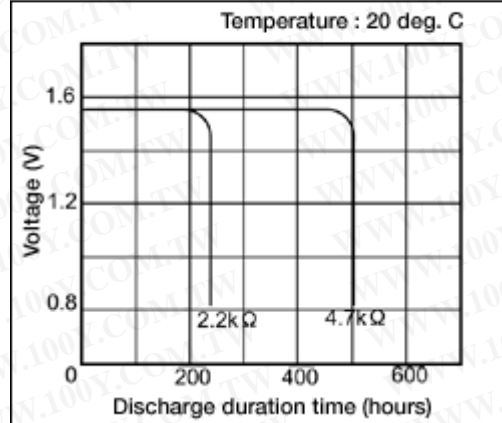
- Flat discharge characteristics
A flat discharge curve during discharge supplies a stable voltage until the end of the discharge life.
- High-energy density
High-energy density per unit volume provides approx. twice as the amount of energy capacity as button-type alkaline batteries.
- Excellent discharge load characteristics
Employing an alkaline electrolyte, the SR battery features excellent discharge load characteristics. Depending on the composition of the electrolytes, two models are available; (1) a low-drain type for analog watches, and (2) a high-drain type for multi-function watches incorporating an alarm, illumination light, etc.
- Superior leakage* resistance
Featuring Maxell's original leak-resistant processing, the SR battery has excellent leakage resistance, which suppresses the electrolyte from rising up and seeping out — a basic phenomenon of alkaline electrolytes.
(* Leakage is defined as an unintended escape of liquid from a battery.)

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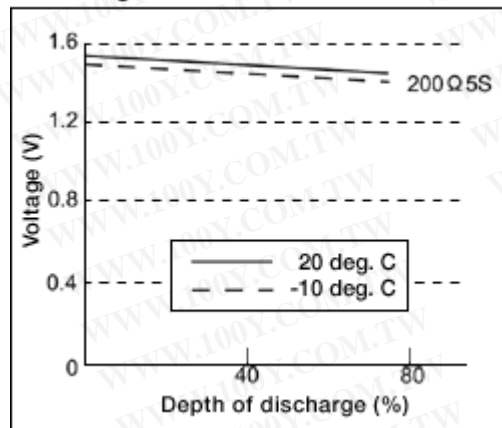
■ Properties

[SR44W, SR44 (165 mAh)]

Continuous Discharge Characteristics

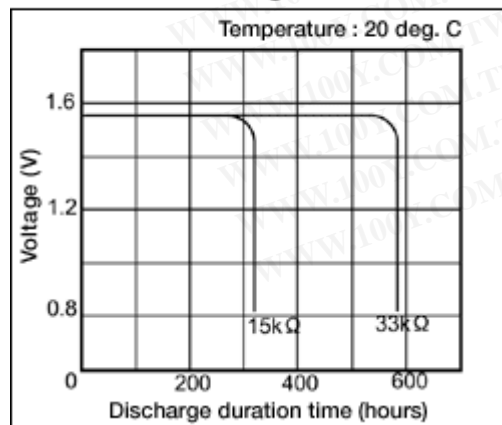


Discharge Load Characteristics

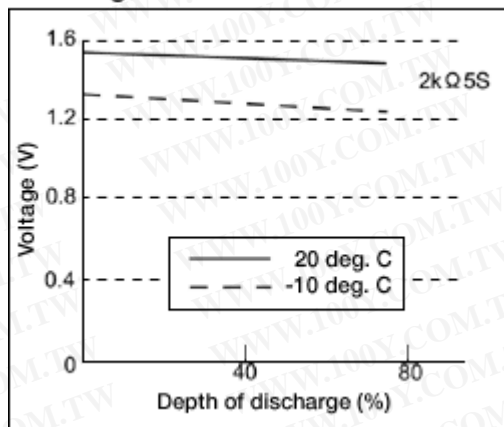


[SR626SW (28 mAh)]

Continuous Discharge Characteristics



Discharge Load Characteristics



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