

SR/LR

Silver Oxide Batteries/ Alkaline Button Batteries

- Over 45 years of experience since the commercialization of the first silver oxide battery in Japan
- Compatible with a wide range of applications, with a range of long-life low-drain type (SW) and high-drain type (W) batteries
- All models are mercury free

* Approx. twice the leak-resistant life of Maxell's high-drain types (W)

Applications

Silver oxide batteries (SR)

- CGM (Continuous Glucose Monitoring)
- Capsule endoscopy
- Analog watches/Digital watches
- Bluetooth® Low Energy (BLE) devices

Alkaline button batteries (LR)

- Bluetooth® Low Energy (BLE) devices
- Medical thermometers
- Personal alarms
- LED lights

• Bluetooth Low Energy is a registered trademark of Bluetooth SIG, Inc., U.S.A.





Overview

Maxell is manufacturing all of its silver oxide batteries and alkaline button batteries without using mercury or lead, with the aim of reducing their environmental impact. By adopting an alkaline electrolyte and optimizing its composition, Maxell provides long-life low-drain type batteries (SW) suitable for quartz watches (analog watches) and high-drain type batteries (W) designed for medical devices and multifunctional digital watches with alarm functions.

For details, please visit Maxell's website.

https://biz.maxell.com/en/primary_batteries/
Silver oxide batteries (SR)/Alkaline button batteries (LR)

Download related documents

Safety Data Sheet

Declaration of Conformity for Environmental Laws and Regulations

Specifications

■SR: Long-life low-drain type (SW)

Model		SR44SW	SR43SW	SR1136SW	SR1130SW	SR1120SW	SR1116SW	SR936SW	SR927SW	SR920SW	SR916SW	SR914SW	SR41SW	SR731SW
Nominal Voltage (V)		1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Nominal Capacity (mAh)*		165	125	100	83	55	29	71	55 / 50	45 / 35	26.5	22	45	36
Nominal Discharge Current (μA)		200	100	100	100	100	50	100	100	50	50	35	50	50
Dimensions	Diameter (mm)	11.6	11.6	11.6	11.6	11.6	11.6	9.5	9.5	9.5	9.5	9.5	7.9	7.9
	Height (mm)	5.4	4.2	3.6	3.05	2.05	1.65	3.6	2.73	2.05	1.65	1.45	3.6	3.1
Weight (g)		2.1	1.7	1.6	1.2	1.0	0.7	0.9	0.8	0.7 / 0.6	0.5	0.45	0.7	0.7

Model		SR726SW	SR721SW	SR716SW	SR712SW	SR626SW	SR621SW	SR616SW	SR527SW	SR521SW	SR516SW	SR512SW	SR421SW	SR416SW
Nominal Voltage (V)		1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Nominal Capacity (mAh)*		35	25	23 / 22	10	30 / 27 / 24	23 / 18	16 / 15	17	16 / 13	12.5	5.5	12	8.3
Nominal Discharge Current (μA)		50	30	30	20	30	30	20	30	20	20	5	20	10
Dimensions	Diameter (mm)	7.9	7.9	7.9	7.9	6.8	6.8	6.8	5.8	5.8	5.8	5.8	4.8	4.8
	Height (mm)	2.6	2.1	1.68	1.29	2.6	2.15	1.65	2.7	2.15	1.65	1.25	2.15	1.65
Weight (g)		0.6	0.45	0.3	0.25	0.4	0.3	0.3	0.3	0.2	0.2	0.14	0.17	0.12

■SR: High-drain type (W)

Model		SR44W	SR43W	SR1130W	SR1120W	SR936W	SR927W	SR920W	SR916W	SR41W
Nominal Voltage (V)		1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
Nominal Capacity (mAh)*		165	125	79	55	75	60 / 57	39	23	39
Nominal Discharge Current (μA)		200	200	100	100	100	100	100	50	50
Dimensions	Diameter (mm)	11.6	11.6	11.6	11.6	9.5	9.5	9.5	9.5	7.9
	Height (mm)	5.4	4.2	3.05	2.05	3.6	2.73	2.05	1.65	3.6
Weight (g)		2.1	1.8	1.2	1.0	0.9	0.8	0.6	0.5	0.7

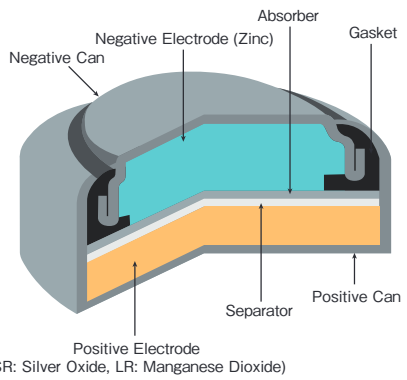
Model		SR726W	SR721W	SR716W	SR626W	SR621W
Nominal Voltage (V)		1.55	1.55	1.55	1.55	1.55
Nominal Capacity (mAh)*		28	25	18	30	18
Nominal Discharge Current (μA)		50	50	30	50	50
Dimensions	Diameter (mm)	7.9	7.9	7.9	6.8	6.8
	Height (mm)	2.6	2.1	1.68	2.6	2.15
Weight (g)		0.5	0.45	0.3	0.4	0.3

■LR: Alkaline button batteries

Model		LR44	LR43	LR1130	LR1120	LR41
Nominal Voltage (V)		1.5	1.5	1.5	1.5	1.5
Nominal Capacity (mAh)*		120	75	45	55	25
Nominal Discharge Current (μA)		100	100	100	100	70
Dimensions	Diameter (mm)	11.6	11.6	11.6	11.6	7.9
	Height (mm)	5.4	4.2	3.05	2.05	3.6
Weight (g)		1.9	1.5	1.2	0.9	0.6

* Nominal capacity indicates the duration until the voltage drops to 1.2 V when discharged at a nominal discharge current at 20 deg. C.

Construction



- All models are mercury free
- Maxell's silver oxide batteries comply with the EU Battery Directive and are manufactured without intentionally adding mercury to the battery materials.