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Marketing Data Sheet - Batteries

S6600143
Issue D
Memo No: [MDSR0104](#)

Rayovac Stock Number: **HD-D**

Name: **HD-D HEAVY DUTY INDUSTRIAL CARBON ZINC**

ENGINEERING DATA:

Cell Chemistry: Carbon Zinc

Designation: ANSI/NEDA – 13CD (D), IEC – R20

Nominal Voltage: 1.5 volts

Approximate Weight: 3.3 Oz (93 grams)

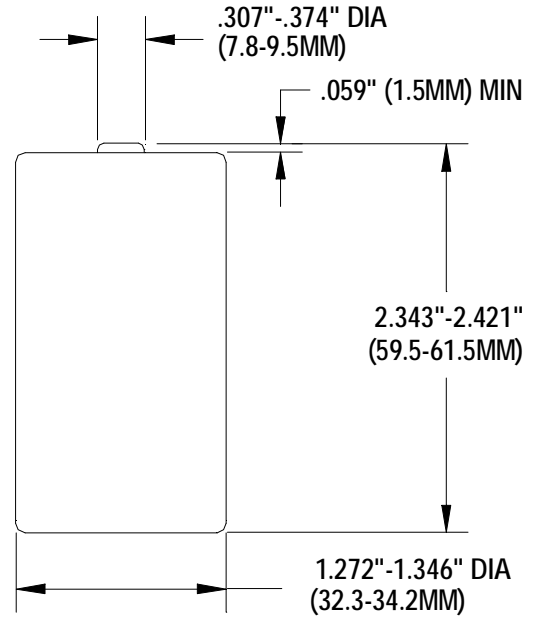
Approximate Volume: 3.4 CU IN (55.7 CU CM)

Operating Temp. Range: -30° C to 55° C (-20° F to 130° F)

Terminals: Flashlight

Shell: Steel

Environmental: Meets Environmental Protection Agency (EPA) Requirements For Landfill Disposal.
No Mercury Added Formulation
[Rayovac Material Safety Data Sheets](#)



**ESTIMATED INITIAL SERVICE AT 70°F (HOURS)
CUTOFF VOLTAGE**

APPLICATION DUTY CYCLE	LOAD (OHMS)	CURRENT (MA at 1.2V)	CUTOFF VOLTAGE					mAh CAPACITY To 0.9V
			1.2V	1.1V	1.0V	0.9V	0.8V	
RADIO (4 HRS/DAY)	10	120	19	27	33	38	-	4,550
CASSETTE (1 HR/DAY)	3.9	308	3.1	6.1	9.3	12.8	-	3,275
FLASHLIGHT (4 MIN/HR-8 HR/DAY)	2.2	545	1.1	2.5	4.6	6.4	-	3,150
TOY/GAME (1 HR/DAY)	2.2	545	0.6	1.8	3.1	4.5	6.3	3,300
FLASHLIGHT (CONTINUOUS)	2.2	545	0.5	1.7	2.7	3.8	-	2,000
FLASHLIGHT (4 MIN/15 MIN-8 HR/DAY)	1.5	800	0.1	0.8	1.8	2.7	-	1,850

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This data is subject to change. Performance information is typical. Contents herein do not constitute a warranty.