

Technical Data Coin-type Manganese Dioxide Lithium Battery

Type: CR2032

Made in China

2020/04/21

TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION



Ratings

Item	Battery system	Coin-type Manganese Dioxide Lithium Battery		
Battery type		CR2032		
Nominal Voltage		3.0V		
Standard Capacity [Condition]		$$220\ mAh$$ [on continuous discharge under $15k\Omega$ load to $2.0V$ end-point at $20deg.C]$		
Terminals	Cap Terminals	SUS + Ni plate		
	Base Terminals	SUS + Ni plate		
Outer dimensions	Diameter	φ20.0(0/-0.3)mm		
	Overall height	3.2(0/-0.3)mm		
Usable temperature range Storage temperature range		-20 ~ 65deg.C		

This is only for reference. (not guaranteed.) This information contained herein may be changed without prior notice.



CR2032 Discharge Characteristics

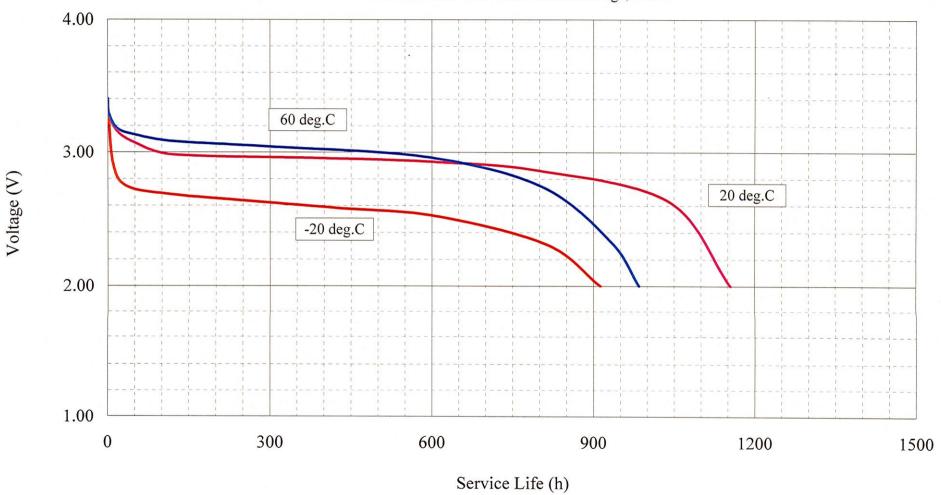


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CR2032 Discharge Characteristics

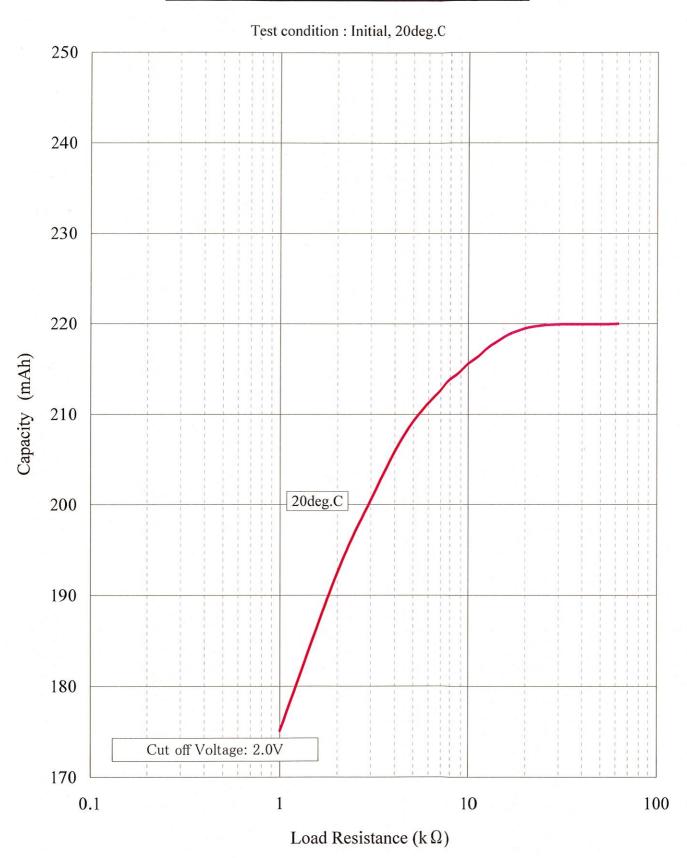
Test condition: $15k\Omega$ continuous discharge, Initial



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CR2032 Load Resistance vs Capacity



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CR2032 Leakage Performance

	Test items	Electrolyte Leakage (%)			
Test condition	Storage period	20days	40days	60days	90days
Storage at high temperature	45deg.C-70%RH	0	0	0	0
and high humidity	60deg.C-90%RH	0	0	= '	,
Temperature cycle	Temperature: -10deg.C ⇔ 60deg.C (4h/Cycle, 6cycle/day,20Day)	0	-	-	-

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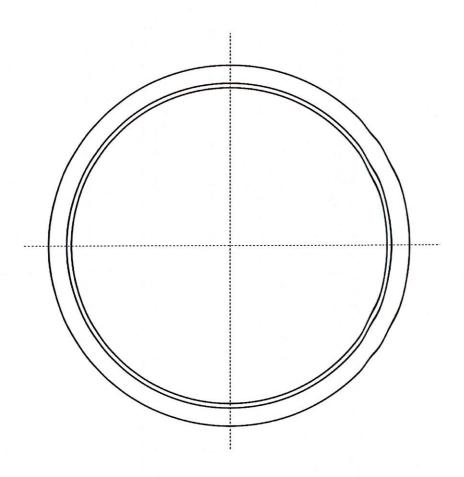
CR2032 Safety Evaluation Test

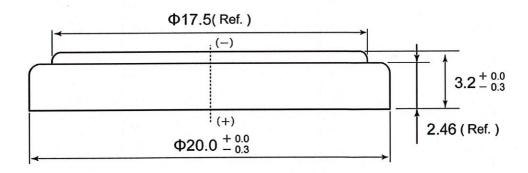
	n	Conditions	Requirements	
Vibration test	5	Amplitude: 1.0mm Frequency: 10 to 55 to 10Hz Sweep: 1minute Period: 2h per each direction of X and Y axes, 4h in total	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Weighing test	5	Weight of 19.8N(2kgf) is laid for 1 hour and 9.8N(1kgf) for 24 hours respectively on all over negative side of cells.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Drop test	5	Number of drops: 10 times Height: 75cm Floor: Concrete Direction: Free	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Heat test	5	Cells are kept stored for 24hrs. Temperature: 80+/-2deg.C Humidity: 70%RH or less.	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Temperature cycle	5	Temperature: -10deg.C ⇔ 60deg.C (4h/Cycle, 6cycle/day,20Day)	Open-circuit voltage is to be kept same as initial value. No abnormal appearance and no substandard dimensions are to be observed.	
Short-circuit test	5	Cells are Short-circuited for 48 hours.	No burst, No fire	

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CR2032 Outline Drawing





Unit: mm

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