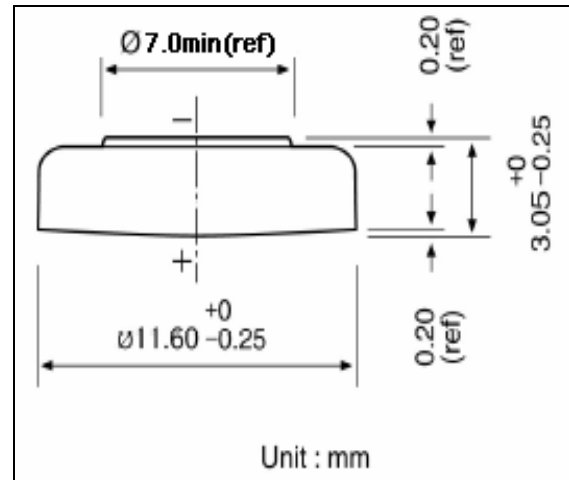


Type	: Mercury and Lead Free Button Cell
Chemical System	: Zinc/Manganese Dioxide
Nominal Voltage	: 1.5Volts
Nominal Dimensions	: Ø11.6mm×3.05mm
Application	: Watch (with alarm), calculator, electronic toys, melody card, ... etc.
Average Weight	: 1.0g
Date Code	: Unless otherwise specified, each cell Will carry a numeric year code and an alphabetical month code.
Shelf Life	: 12 months shelf life after delivery .
Close Circuit Voltage	: 1.30Volts (min.)(load resistor 300Ω at 20 ± 2 °C for 0.1 to 2 seconds)
Nominal Service Life	: 130 hrs (load 3.9kΩ to cut off 1.0V under 20 ± 2 °C)
Average Service Capacity	: 44mAh (load 3.9kΩ to cut off 1.0V under 20 ± 2 °C)

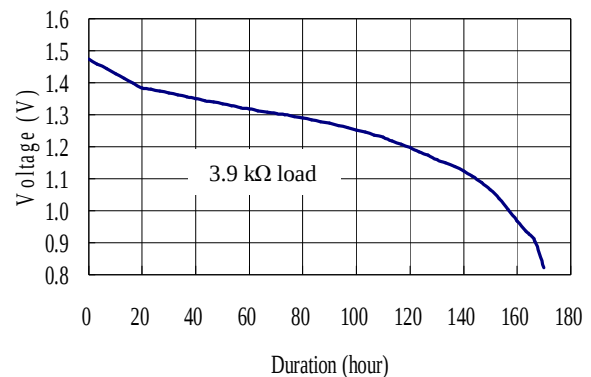
Cross References:

IEC	Maxell	Duracell	Others
LR54	JR1130	LR54	V10GA, AG10

Model No.: **GP189F**



Typical discharge curve when 3.9kohm load



Typical Discharge characteristics at 20 ± 2 °C

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BQS1057 Rev.02

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