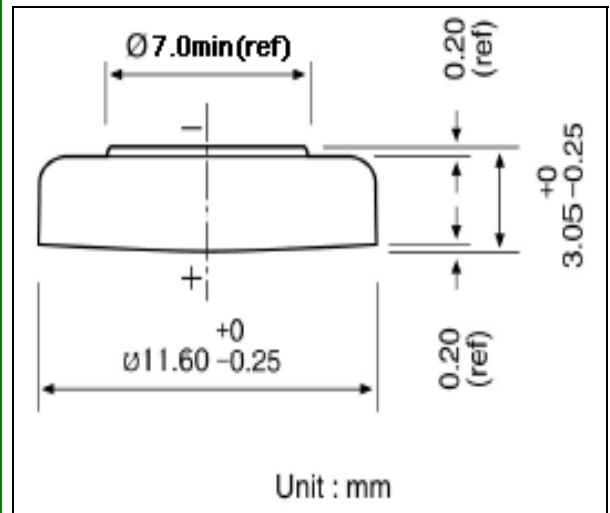
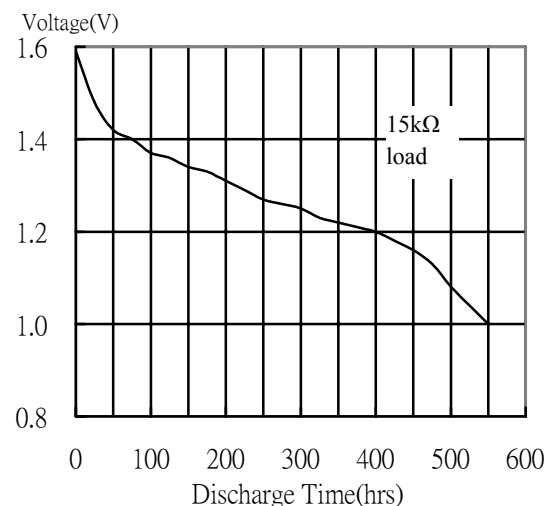


Model No.: GP189

Type	: Alkaline Low Drain Button Cell			
Chemical System	: Alkaline 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	: Not less than 90% of the service capacity within first year. , not less than 85% of the service capacity with third year storage at 20 ±2 °C 45-75%RH			
Close Circuit Voltage	: 1.30Volts (min.)(load resistor 100Ω at 20 ± 2 °C for 0.1 to 2 seconds)			
Nominal Service Life(to 1.0V at 20 ±2 °C)	: 660hrs (at 20 kΩ load) 140 days (at 100 kΩ load)			
Average Service Capacity (to 1.0V at 20 ±2 °C)	: 44mAh(at 15 kΩ load)			
Cross References:				
IEC	JIS	Eveready	Varta	Others
LR54	LR1130	189	V10GA	LR54



Typical Discharge characteristics at 20 ± 2 °C



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