

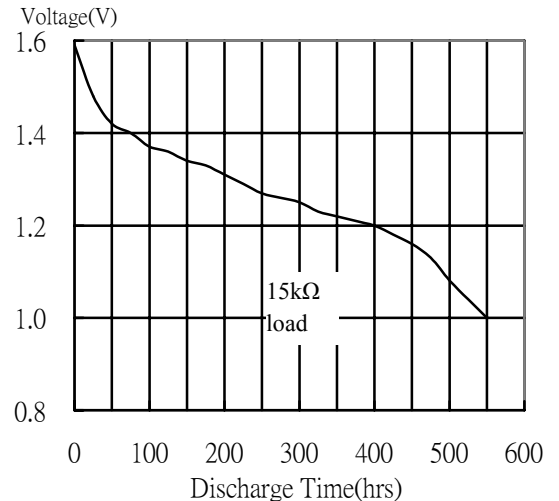
# GP Batteries

## Data Sheet

Model No.: GP189

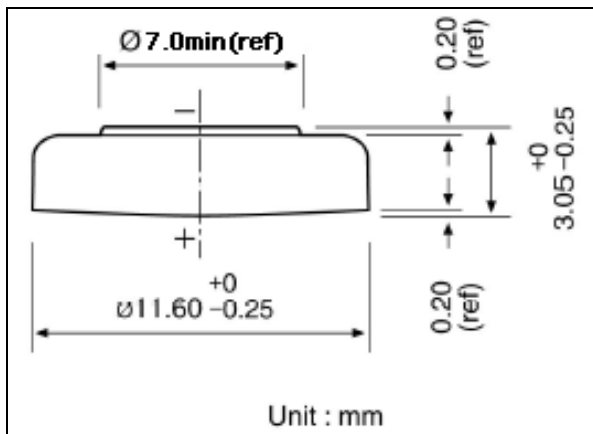
|                          |                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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,<br>electronic toys, melody card, ... etc.                                                                                           |
| Average Weight           | : 1.0g                                                                                                                                                                |
| Date Code                | : Unless otherwise specified, each cell<br>Will carry a numeric year code and an<br>alphabetical month code.                                                          |
| Shelf Life               | : Not less than 90% of the service<br>capacity within first year. , not less<br>than 85% of the service capacity with<br>third year storage at 20 ± 2 °C<br>45-75%RH. |
| Close Circuit Voltage    | : 1.30 Volts (min.)(load resistor 100Ω<br>at 20 ± 2 °C for 0.1 to 2 seconds)                                                                                          |
| Nominal Service Life     | : 660hrs (at 20 kΩ load)<br>(to 1.0V at 20 ± 2 °C) 140 days (at 100 kΩ load)                                                                                          |
| Average Service Capacity | : 44mAh(at 15 kΩ load)<br>(to 1.0V at 20 ± 2 °C)                                                                                                                      |

### Typical Discharge characteristics at 20 ± 2 °C



### Cross References:

| IEC  | JIS  | Eveready | Varta | Duracell |
|------|------|----------|-------|----------|
| LR54 | LR54 | 189      | V10GA | LR54     |



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