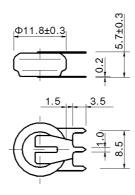
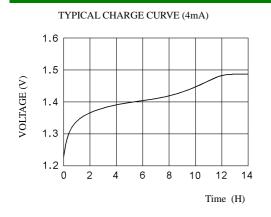
B40067 Ni-MH BUTTON CELL

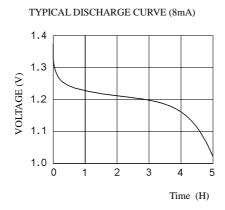
TECHNICAL DATA

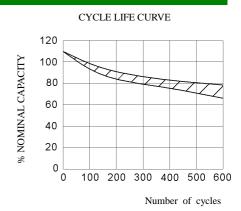


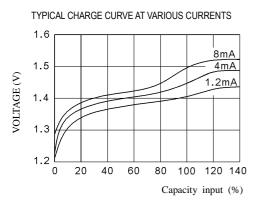
| Model | Voltage | Capacity | Recommended Trickle Charge Current | Nominal Charge Current | Normal Charging Time | Nominal Discharge Current | Weight |
|--------|---------|----------|------------------------------------|---------------------------|-------------------------|------------------------------|--------|
| B40067 | 1.2V | 40mAh | 1.2~2mA | 4mA | 14~16h | 8mA | 1.9g |

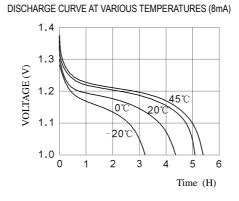
TECHNICAL CHARACTERISTICS

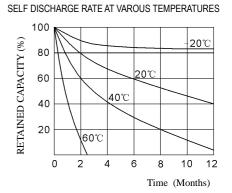












TECHNICAL INFORMATION

1. APPLICATION

This specification applies to the Ni-MH batteries

Model : B40067

- 2. CELL AND TYPE
- 2.1 Cell: Sealed Ni-MH Button Cell
- 2.2 Type : Button type
- 2.3 Size type: 1.2V
- 3. RATINGS
- 3.1 Nominal voltage : 1.2V
- 3.2 Nominal capacity : 40mAh
- 3.3 Typical weight : 1.9g
- 3.4 Standard charge : $4mA \times 14hours$
- 3.5 Rapid charge : 8mA×6hours
 - Trickle current : 1.2mA
- 3.6 Discharge cut-off voltage: 1.0V
- 3.7 Temperature range for operation (Humidity: Max.85%)
 - Standard charge 0 ~ +45°C
 - +10 ~ +45°C Rapid charge
 - Trickle charge 0 ~ +45℃
 - Discharge -10 ~ +45°C
- 3.8 Temperature range for storage (Humidity: Max.85%)
 - Within 2 years -20 ~ +35°C
 - Within 6 months -20 ~ +45°C
 - -20 ~ +45°C Within a month

 - Within a week -20 ~ +55°C

4. ASSEMBLY & DIMENSIONS

Per attached drawing

5. PERFORMANCE

5.1 TEST CONDITIONS

The test is carried out with new batteries (within a month after delivery)

ambient conditions

Temperature: $+25 \pm 5^{\circ}$ C

 $60 \pm 20\%$ Humidity:

Note 1

Standard charge : $4mA \times 14hours$

Standard discharge : 8mA to 1.0V

5.2 TEST METHOD & PERFORMANCE

| Test | Unit | Specification | Conditions | Remarks |
|-------------------|----------|----------------|--------------------------|----------------|
| Composites | mAh | ≥40 | Standard | Up to 3 cycles |
| Capacity | IIIAII | <i>≤</i> 40 | Charge/discharge | Are allowed |
| Open Circuit | Voltage | ≥1.3 | After 1 hour standard | |
| Voltage (OCV) | (V) | | Charge | |
| Internal | mΩ/cell | ≤2000 | Upon fully charge | |
| Impedance | m s2/cen | ≥2000 | (1KHz) | |
| High rate | Minute | >60 | Standard charge | |
| Discharge (20 mA) | Minute | ≥60 | Before discharge | |
| Discharge | A | 20 | Maximum continuous | |
| Current | mA | 20 | Discharge current | |
| Over charge | | No leakage | 1.2mA charge | |
| Over charge | | Not explosion | one year | |
| Change | | 32 | Standard charge; | |
| Charge | mAh | | Storage: 28 days; | |
| Retention | | | Standard discharge | |
| Cycle Life | Cycle | ≥400 | IEC/CEI61951-2:2001. 4.4 | |
| Laglaga | | No leakage nor | Fully charge at 4mA, | |
| Leakage | | Deformation | Stand 14 days | |

Note 2 IEC/CEI61951-2:2001. 4.4 cycle life

| Cycle number | Charge | Stand in charged Condition | Discharge | |
|--------------|------------------|----------------------------|-------------------|--|
| 1 | 4mA for 16h | None | 10mA for 2h20min | |
| 2-48 | 10mA for 3h10min | None | 10mA for 2h20min | |
| 49 | 10mA for 3h10min | None | 10mA to 1.0V/cell | |
| 50 | 4mA for 16h | 1h to 4h | 8mA to 1.0V/cell | |

^{1.}Befor the endurance in cycles test, the cell shall be discharged at 8mA to a final voltage of 1.0V/cell.

5.3 Humidity

The battery shall not leak during the 14 days which it is submitted to the condition of a temperature of $33\pm3^{\circ}$ C and a relative humidity of $80\pm5\%$.

6. OTHERS

- 6.1 We recommend you to set the cut-off voltage at 1.0V/cell.
- 6.2 If the cut-off voltage is above 1.1V/cell, the battery may be underutilized resulting insufficient use of the available capacity.
- 6.3 If it is below 1.0V/cell,the battery may have discharge or reverse charge to the cell.

7. PRECAUTION

The cells shall be delivered in charged condition. Before testing or using, the cell shall be discharged at $20\pm5^{\circ}$ C at a constant current of 8mA to a final voltage of 1.0V/cell.

- 7.1 Avoid throwing cells into a fire or attempting to disassemble them.
- 7.2 Avoid short circuiting the cells.
- 7.3 Avoid direct solidarity to cells.
- 7.4 Observe correct polarity when connecting.
- 7.5 Do not charge with more than our specified current.
- 7.6 Use cells only within the specified working temperature range.
- 7.7 Store cells in dry and cool place.

^{2.} The following endurance test shall then be carried out, in an ambient temperature of $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.