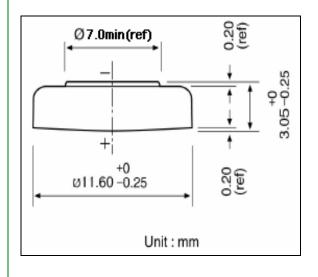


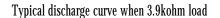
## DATA SHEET

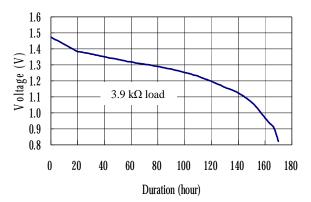
| Туре                   | : Mercury and Lead Free               |
|------------------------|---------------------------------------|
| -51-                   | Button Cell                           |
| <b>Chemical System</b> | : Zinc/Manganese Dioxide              |
| •                      | : 1.5Volts                            |
| Nominal Voltage        |                                       |
| Nominal                | : Ø11.6mm×3.05mm                      |
| Dimensions             |                                       |
| 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          | : 1.30Volts (min.)( load              |
| Voltage                | resistor $300\Omega$ at $20 \pm 2$ °C |
| voluge                 | for 0.1 to 2 seconds)                 |
| Nominal Service        | : 130 hrs (load 3.9k $\Omega$ to cut  |
| Life                   | off 1.0V under $20 \pm 2$ °C)         |
|                        | ,                                     |
| Average Service        | 44mAh (load 3.9k $\Omega$ to cut      |
| Capacity               | off 1.0V under $20 \pm 2$ °C)         |
|                        |                                       |
| Cross References:      |                                       |
|                        |                                       |

| IEC  | Maxell | Duracell | Others      |
|------|--------|----------|-------------|
| LR54 | JR1130 | LR54     | V10GA, AG10 |

## Model No.: GP189F







## Typical Discharge characteristics at 20 ± 2 °C

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