

Shipped in packet-tape reel(5,000pcs per reel)

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#### Absolute Maximum Ratings

| Item                  | Symbol         | Limit           | Unit |  |
|-----------------------|----------------|-----------------|------|--|
| Max. Input Voltage    | V <sub>c</sub> | 8               | V    |  |
| Max.Input Power       | P <sub>D</sub> | 150             | mW   |  |
| Operating Temp. Range | Topr.          | $-40 \sim +125$ | Ĉ    |  |
| Storage Temp. Range   | Tstg.          | $-40 \sim +150$ | °C   |  |



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**|**↔| 0.15

## Dimensional Drawing(Unit : mm)

## 0.5-0.1 0.8±0.1 Þ Sensor Center φ0.2 .0∓9.I Ν Sensor Center 0.5-0.1 о.3

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Pin 5 is short to pin 3 inside the package.

| Pinning |       |      |  |  |  |
|---------|-------|------|--|--|--|
| Input   | 1 (±) | 3(∓) |  |  |  |
| Output  | 2(±)  | 4(∓) |  |  |  |

## •Land pattern (for reference only) (Unit : mm)



## Electrical Characteristics(T<sub>a</sub>=25°C)

|   | Item                       | Symbol                            | Conditions                                 | Min.  | Тур.  | Max.  | Unit |
|---|----------------------------|-----------------------------------|--|-------|-------|-------|------|
|   | Output Hall Voltage        | $V_{H}^{*}$                       | B=50mT, V <sub>C</sub> =6V                 | 78    |       | 102   | mV   |
| - | Input Resistance           | R <sub>in</sub>                   | B=0mT, I <sub>C</sub> =0.1mA               | 1,600 | 2,000 | 2,400 | Ω    |
|   | Output Resistance          | R <sub>out</sub>                  | B=0mT, I <sub>C</sub> =0.1mA               | 3,200 | 4,000 | 4,800 | Ω    |
|   | Offset Voltage             | V <sub>os</sub> (V <sub>u</sub> ) | B=0mT, V <sub>C</sub> =6V                  | -8    |       | 8     | mV   |
|   | Temp. Coefficient of $V_H$ | αV <sub>H</sub> *                 | B=50mT, I <sub>C</sub> =1mA<br>Ta=25∼125℃  |       |       | -0.07 | %/C  |
|   | Temp. Coefficient of Rin   | αR <sub>in</sub> *                | B=0mT, I <sub>C</sub> =0.1mA<br>Ta=25∼125℃ |       |       | 0.3   | %/C  |
|   | Linearity                  | Δĸ                                | B=0.1/0.5T, I <sub>C</sub> =1mA            |       |       | 2     | %    |

Notes : 1.  $V_H = VHM - V_{os}(V_u)$  (VHM:meter indication)

2. 
$$\alpha V_{\rm H} = \frac{1}{V_{\rm H}(T_1)} \times \frac{V_{\rm H}(1_2) - V_{\rm H}(1_1)}{(T_2 - T_1)} \times 100$$
  
3.  $\alpha R_{\rm H} = \frac{1}{V_{\rm H}(T_2)} \times \frac{R_{\rm in}(T_2) - R_{\rm in}(T_1)}{V_{\rm H}(T_2)} \times 100$ 

$$\Delta K = \frac{K(B_1) - K(B_2)}{K(B_1) - K(B_2)} \times 100$$

$$[K (B1) + K (B2)] / 2$$
  
 $T_1 = 25^{\circ}C, T_2 = 125^{\circ}C$   
 $K = \frac{V_H}{I_C \cdot B}$ 

4.

B1 = 0.5T, B2 = 0.1T

## Characteristic Curves Allowable Package Power Dissipation



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•Handling precautions required for preventing electrostatic discharge.

•This product contains galium arsenide (GaAs).Handling and discarding precautions required.



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