HG-0113

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

Notice: It is requested to read and accept "IMPORTANT NOTICE" written on the back of the front cover of this catalogue.

Absolute Maximum Ratings

| Item | Symbol | Limit | Unit | |
|-----------------------|----------------|--------------------------|------|--|
| Max. Input Voltage | V _C | 12 | V | |
| Max.Input Power | P _D | 150 | mW | |
| Operating Temp. Range | Topr. | −40 ~ +125 | °C | |
| Storage Temp. Range | Tstg. | −40 ~ +150 | °C | |



●Electrical Characteristics(T_a=25°C)

| Item | Symbol | Conditions | Min. | Тур. | Max. | Unit |
|-------------------------------------|-----------------------------------|---|-------|-------|-------|------|
| Output Hall Voltage | V _H * | B=50mT, V _C =6V | 78 | | 102 | mV |
| Input Resistance | Rin | B=0mT, I_{C} =0.1mA | 1,000 | 1,250 | 1,500 | Ω |
| Output Resistance | R _{out} | B=0mT, I _C =0.1mA | 1,800 | 2,500 | 3,000 | Ω |
| Offset Voltage | V _{os} (V _u) | B=0mT, V _C =6V | -8 | | 8 | mV |
| Temp. Coefficient of V _H | αV _H | B=50mT, I_C =1mA Ta=25 \sim 125 $^{\circ}$ C | | | -0.06 | %/C |
| Temp. Coefficient of Rin | αRin | B=0mT, I _C =0.1mA Ta=25∼125°C | | | 0.3 | %/C |
| Linearity | ΔK* | B=0.1/0.5T, I _C =1mA | | | 2 | % |

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

$$\begin{array}{l} 2. \ \alpha V_{H} = V_{H} V_{IJ} V$$

3.
$$\alpha R_{in} = \frac{1}{R_{in}(T_1)} X \frac{R_{in}(T_2) - R_{in}(T_1)}{(T_2 - T_1)} X 100$$

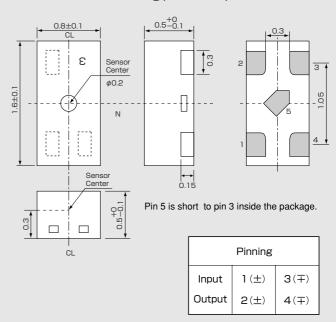
4.
$$\Delta K = \frac{K(B_1) - K(B_2)}{(K(B_1) + K(B_2))/2} \times 100$$

$$T_1 = 25^{\circ}C, T_2 = 125^{\circ}C$$

$$\mathsf{K} = \frac{\mathsf{V}_\mathsf{H}}{\mathsf{I}_\mathsf{C} \bullet \mathsf{B}}$$

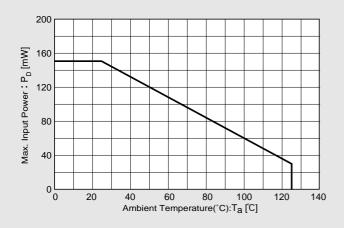
 $B_1 = 0.5T$, $B_2 = 0.1T$

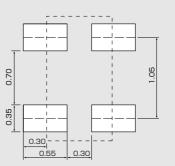
Dimensional Drawing(Unit : mm)



Characteristic Curves

Allowable Package Power Dissipation



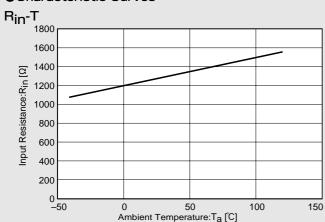


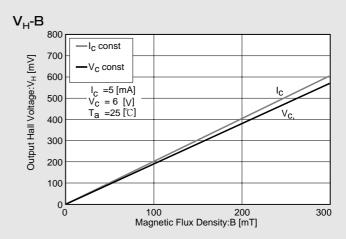
●Land pattern (for reference only) (Unit: mm)

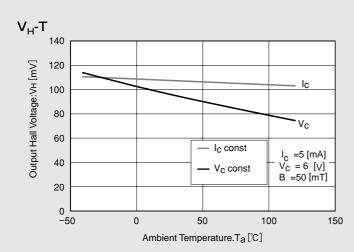
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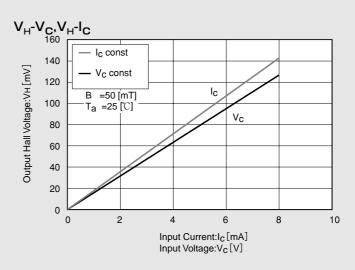
- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

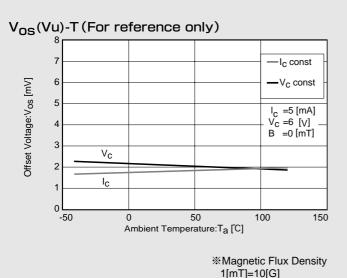
Characteristic Curves

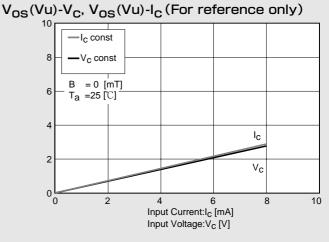












In This Example : Rin=1270 (Ω) , Vos=2.1 (mV) , [Vc=6 (V)]

45

b

С

g

i

k

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