HG-0112

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	8	V
Max.Input Power	P _D	150	mW
Operating Temp. Range	Topr.	−40 ~ +125	c
Storage Temp. Range	Tstg.	−40 ~ +150	c



●Electrical Characteristics(Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V _H *	B=50mT, V _C =6V	75		95	mV
Input Resistance	Rin	B=0mT, I_C =0.1mA	450		750	Ω
Output Resistance	R _{out}	B=0mT, I _C =0.1mA	1,000		2,000	Ω
Offset Voltage	V _{OS} (V _u)	B=0mT, V _C =6V	-16		+16	mV
Temp. Coefficient of V _H	αV _H	B=50mT, I_C =5mA 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 =5mA			2	%

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

2.
$$\alpha V_H = \frac{1}{V_H(T_1)} \times \frac{V_H(T_2) - V_H(T_1)}{(T_2 - T_1)} \times 100$$

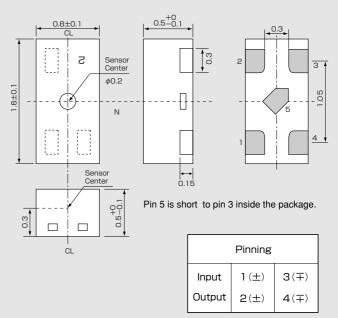
$$\begin{array}{l} 2. \ \alpha V_{H} = \frac{1}{V_{H}(T_{1})} \ X \ \frac{V_{H}(T_{2}) - V_{H}(T_{1})}{(T_{2} - T_{1})} \ X \ 100 \\ 3. \ \alpha R_{in} = \frac{1}{R_{in}(T_{1})} \ X \ \frac{K_{in}(T_{2}) - R_{in}(T_{1})}{(T_{2} - T_{1})} \ X \ 100 \end{array}$$

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

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

$$K = \frac{V_H}{I_C \cdot B}$$

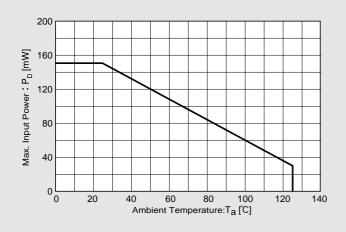
Dimensional Drawing(Unit : mm)

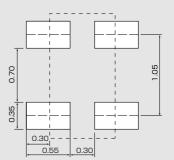


●Land pattern (for reference only) (Unit: mm) $B_1 = 0.5T$, $B_2 = 0.1T$

Characteristic Curves

Allowable Package Power Dissipation

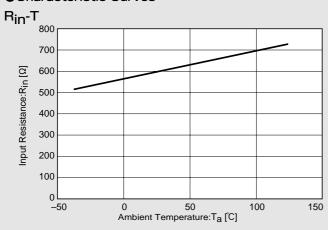


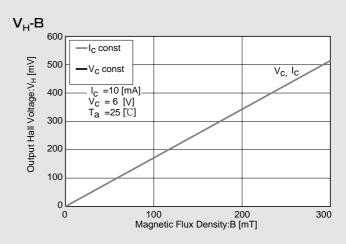


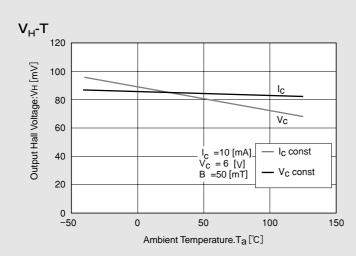
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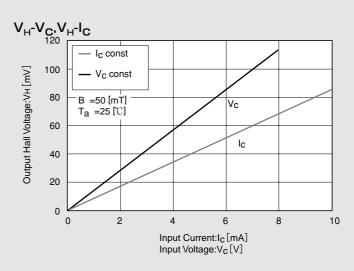
- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

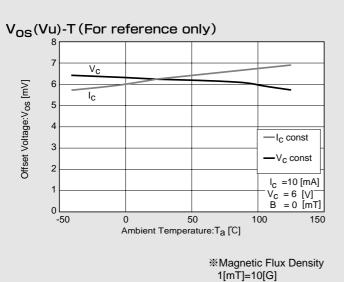
● Characteristic Curves

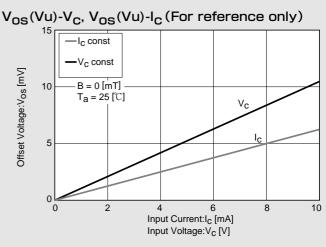












In This Example : $R_{\mbox{in}}\mbox{=}600\,(\Omega)\,,\,V_{\mbox{OS}}\mbox{=}6.3\,(\mbox{mV})\,,\,[V_{\mbox{C}}\mbox{=}6\,(\mbox{V})\,]$

b

С

g

i

k

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