

HG-106A

Shipped in packet-tape reel(4,000pcs 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

注)制限抵抗がない場合は、最大入力電圧の範囲以内でご使用下さい。

●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} (Vu)	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. $V_H = VHM - V_{os}(Vu)$ (VHM:meter indication)

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

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

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

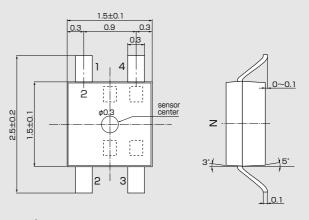
 $B_1 = 0.5T$, $B_2 = 0.1T$

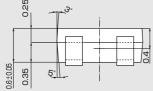
Taping





Dimensional Drawing(Unit : mm)

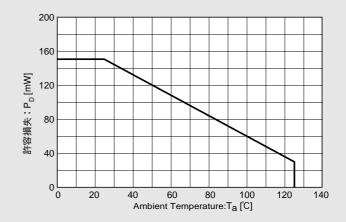




Pinning				
Input	1 (±)	3(∓)		
Output	2(生)	4 (∓)		

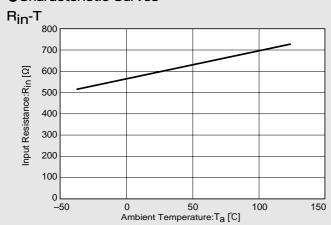
● Characteristic Curves

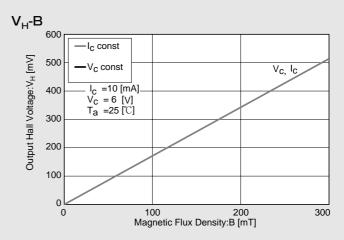
Allowable Package Power Dissipation

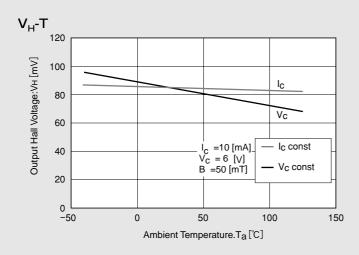


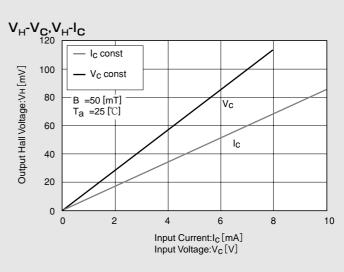
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- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

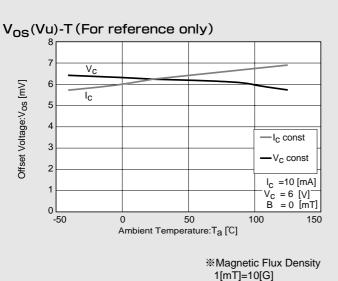
● Characteristic Curves

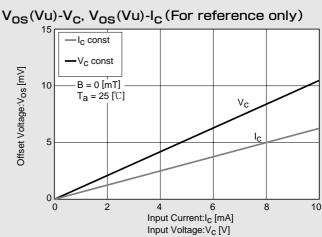












In This Example : $R_{\mbox{in}}\mbox{=}600\,(\Omega)\,,\,V_{\mbox{OS}}\mbox{=}6.3\,(\mbox{mV})\,,\,[V_{\mbox{C}}\mbox{=}6\,(\mbox{V})\,]$

b

С

g

h

i

k

IMPORTANT NOTICE

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