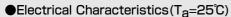
HG-166A-2U

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	12	V	
Max.Input Power	P _D	150	mW	
Operating Temp. Range	Topr. −40 ~ +125		°C	
Storage Temp. Range	Tstg.	−40 ~ +150	°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)

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

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

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

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

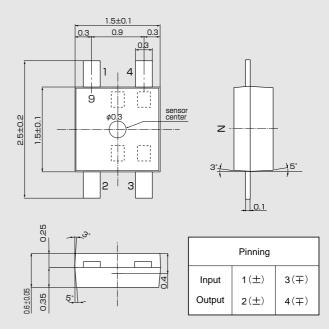
 $B_1 = 0.5T$, $B_2 = 0.1T$

Taping

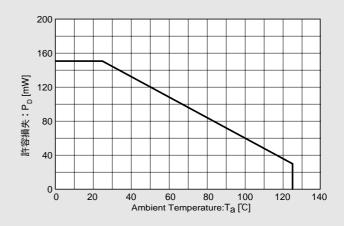




Dimensional Drawing(Unit : mm)

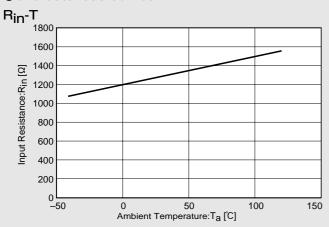


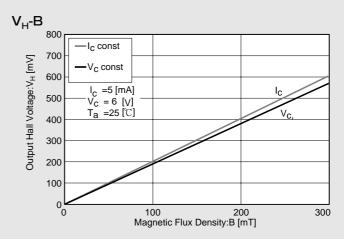
Characteristic Curves Allowable Package Power Dissipation

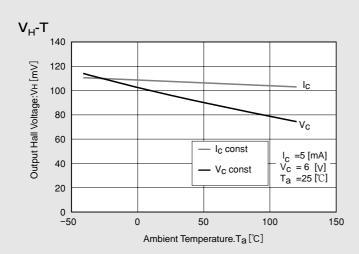


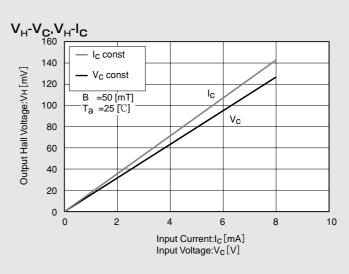
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- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

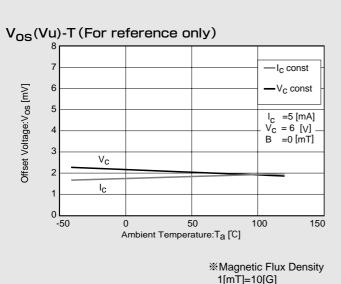
Characteristic Curves

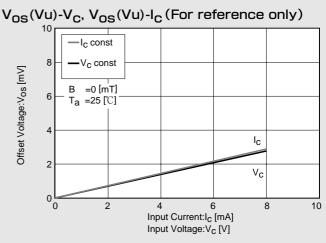












In This Example : R_{in}=1270 (Ω), V_{OS}=2.1 (mV), [V_C=6 (V)]

b

С

g

h

k

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