HG-0115

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	80		110	mV
Input Resistance	Rin	B=0mT, I_C =0.1mA	2,200	2,400	3,200	Ω
Output Resistance	R _{out}	B=0mT, I _C =0.1mA	4,400	4,800	6,400	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			-0.08	%/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.
$$\alpha R_{in} = \frac{1}{R_{in}(T_1)} X \frac{R_{in}(T_2) - R_{in}(T_1)}{(T_2 - T_1)} X 100$$

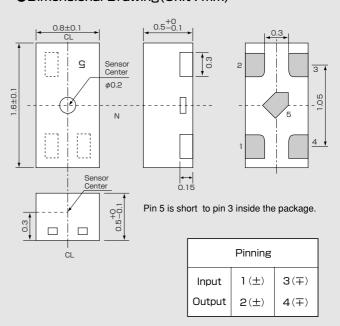
4.
$$\Delta K = \frac{K(B_1) - K(B_2)}{[K(B_3) + K(B_2)]/2} \times 100$$

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

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

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

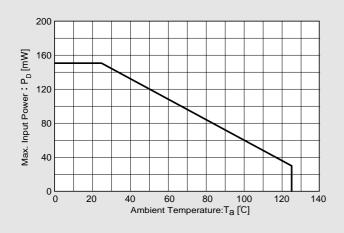
Dimensional Drawing(Unit : mm)

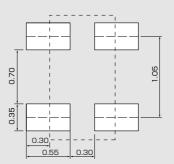


●Land pattern (for reference only) (Unit: mm)

Characteristic Curves

Allowable Package Power Dissipation

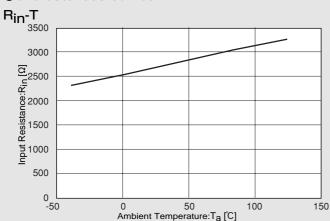


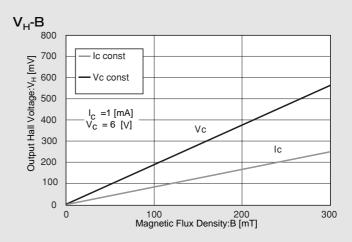


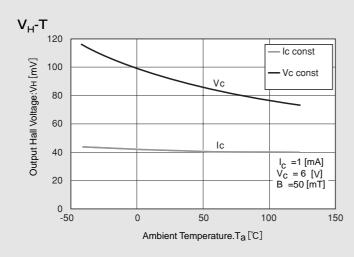
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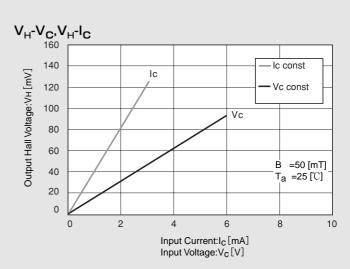
- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

Characteristic Curves

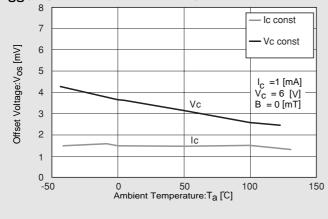




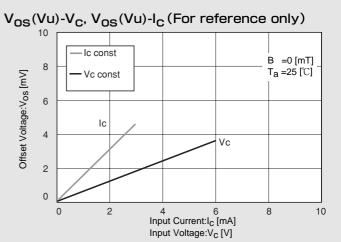








%Magnetic Flux Density
1[mT]=10[G]



In This Example : Rin=2659 (Ω) , V_{OS}=3.44 (mV) , [V_C=6 (V)]

b

С

g

ľ

k

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