

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 <sub>c</sub>	8	V	
Max.Input Power	P <sub>D</sub>	150	mW	
Operating Temp. Range	Topr.	−40 ~ +125	°C	
Storage Temp. Range	Tstg.	<b>−40</b> ~ <b>+150</b>	°C	

# ●Electrical Characteristics(T<sub>a</sub>=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V <sub>H</sub> *	B=50mT, V <sub>C</sub> =6V	80		110	mV
Input Resistance	Rin	B=0mT, $I_C$ =0.1mA	2,200	2,400	3,200	Ω
Output Resistance	R <sub>out</sub>	B=0mT, I <sub>C</sub> =0.1mA	4,400	4,800	6,400	Ω
Offset Voltage	V <sub>os</sub> (V <sub>u</sub> )	B=0mT, V <sub>C</sub> =6V	-8		8	mV
Temp. Coefficient of V <sub>H</sub>	αV <sub>H</sub>	B=50mT, $I_C$ =1mA Ta=25 $\sim$ 125 $^{\circ}$ C			-0.08	%/C
Temp. Coefficient of Rin	αRin	B=0mT, I <sub>C</sub> =0.1mA Ta=25∼125°C			0.3	%/C
Linearity	ΔK	B=0.1/0.5T, I <sub>C</sub> =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. 
$$\alpha R_{in} = \frac{1}{R_{in}(T_1)} X \frac{R_{in}(T_2) - R_{in}(T_1)}{(T_2 - T_1)} X 100$$

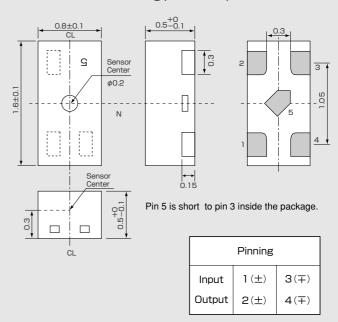
4. 
$$\Delta K = \frac{K(B_1) - K(B_2)}{(K(B_1) + K(B_2))/2} \times 100$$

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

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

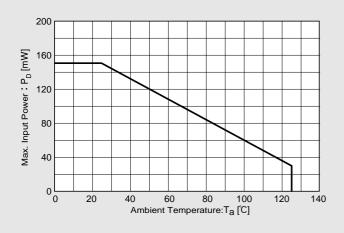
 $B_1 = 0.5T$ ,  $B_2 = 0.1T$ 

# Dimensional Drawing(Unit : mm)

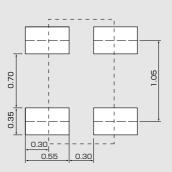


# Characteristic Curves

## Allowable Package Power Dissipation



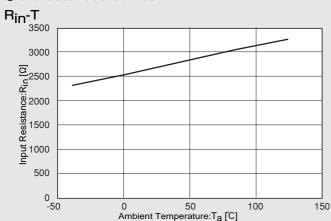
#### ●Land pattern (for reference only) (Unit: mm)

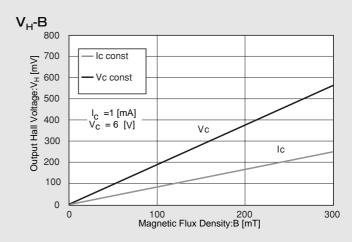


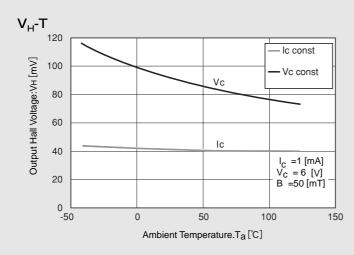
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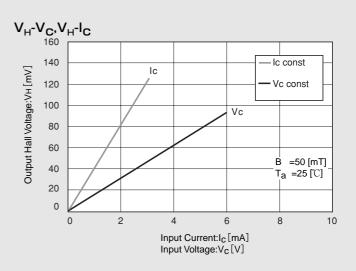
- •Handling precautions required for preventing electrostatic discharge.
- •This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

#### Characteristic Curves

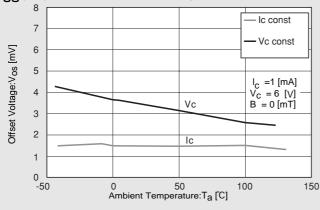






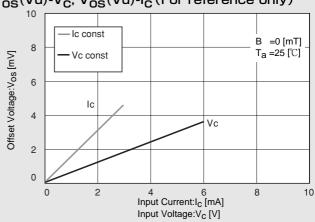






\*Magnetic Flux Density 1[mT]=10[G]





In This Example :  $R_{in}=2659(\Omega)$ ,  $V_{os}=3.44(mV)$ ,  $[V_{c}=6(V)]$ 

b

С

g

k

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