

HZ-116C

Shipped in packet-tape reel(2,500pcs 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 Current	I_c	25°C Const. Current Drive	17	mA
Operating Temp. Range	Topr.		-40 ~ +125	°C
Storage Temp. Range	Tstg.		-40 ~ +150	°C



●Electrical Characteristics(T_a=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Output Hall Voltage	V_H^{**}	Const. Current Drive B=50mT, I _C =5mA	24		33	mV
Input Resistance	R _{in}	B=0mT, I _C =0.1mA	240		360	Ω
Output Resistance	R _{out}	B=0mT, I _C =0.1mA	240		360	Ω
Offset Voltage	V _{os} (V _U)	B=0mT, I _C =5mA	-2.5		2.5	mV
Temp. Coefficient of V _H	αV_H^{**}	B=50mT, I _C =5mA T _a =25~125°C	-0.07		-0.11	%/°C
Temp. Coefficient of R _{in}	αR_{in}^{**}	B=0mT, I _C =0.1mA T _a =25~125°C	0		0.2	%/°C

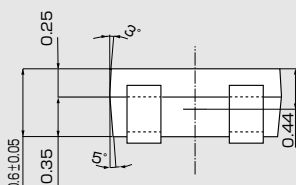
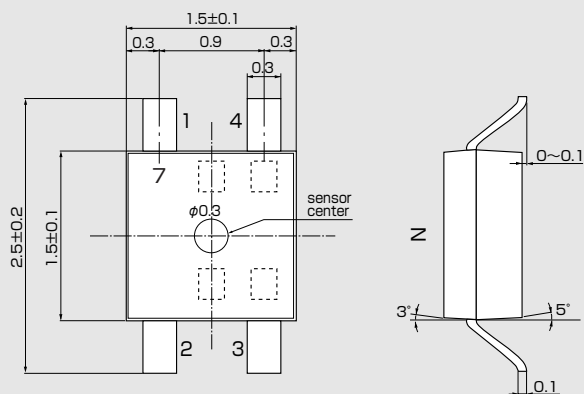
Notes : 1. $V_H = V_{HM} - V_{os}(V_U)$ (VHM: meter indication)

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

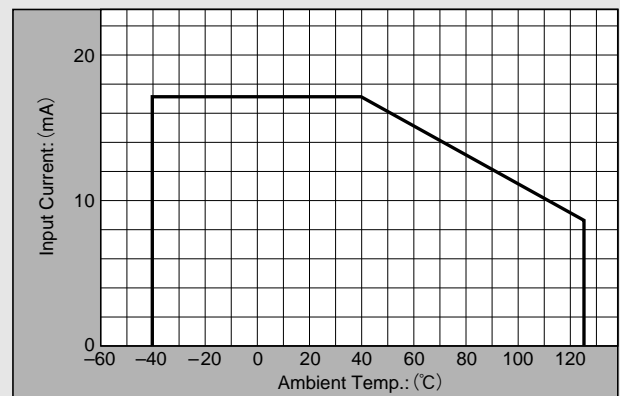
T₁ = 25°C, T₂ = 125°C

●Dimensional Drawing(Unit : mm)

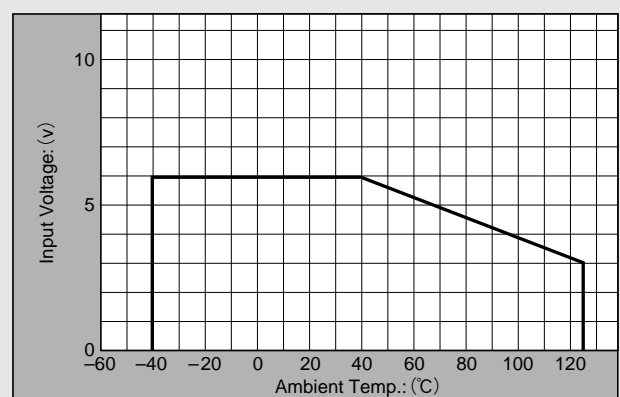


Pinning		
Input	1 (±)	3 (∓)
Output	2 (±)	4 (∓)

●Input Current Derating Curve



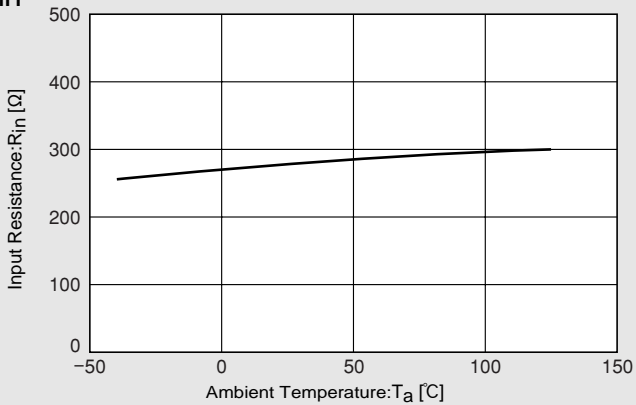
●Input Voltage Derating Curve



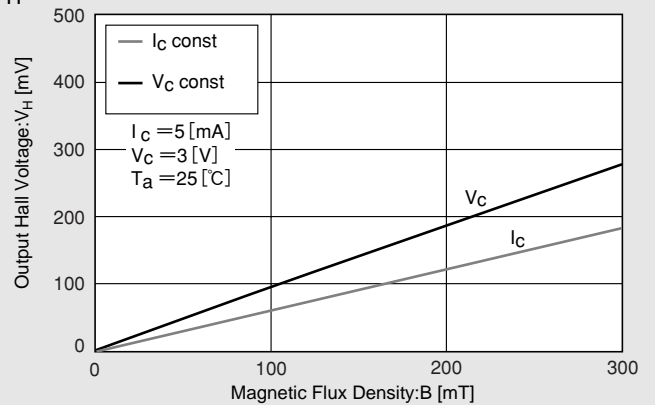
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- Handling precautions required for preventing electrostatic discharge.
- This product contains gallium arsenide (GaAs). Handling and discarding precautions required.

●Characteristic Curves

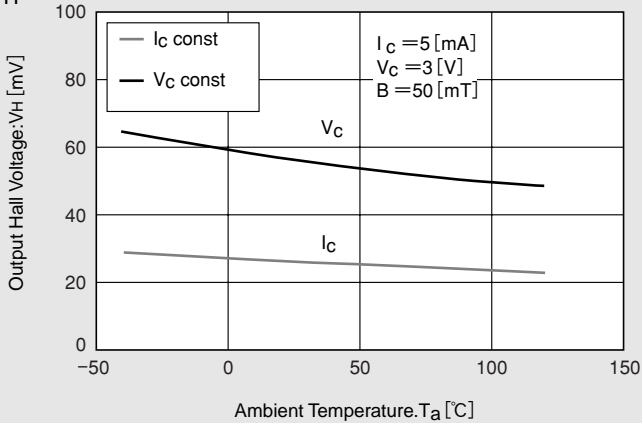
R_{in} -T



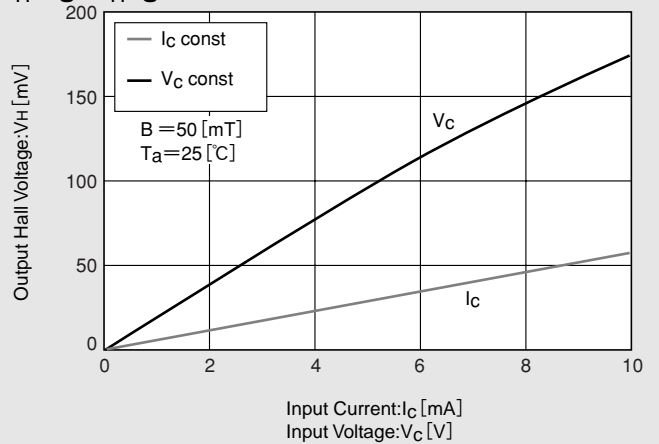
V_H -B



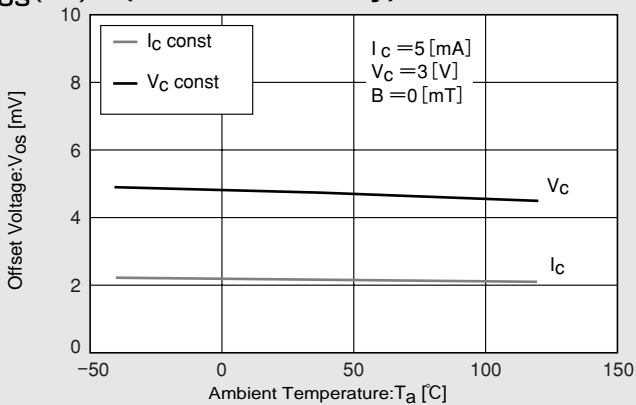
V_H -T



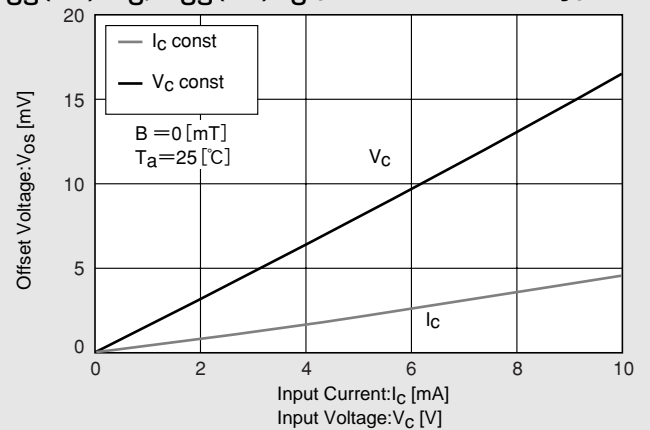
V_H - V_C , V_H - I_C



$V_{OS}(V_u)$ -T (For reference only)



$V_{OS}(V_u)$ - V_C , $V_{OS}(V_u)$ - I_C (For reference only)



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

in This Example: $R_{in}=275$ [Ω], $V_{OS}=4.7$ [mV] [$V_C=3$ [V]]

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