HW-322B

Shipped in bulk(500pcs per pack)

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	Ic	40℃ Const. Current Drive	20	mA
Operating Temp. Range	Topr.		-40~+110	ĉ
Storage Temp. Range	Tstg.		-40 ~ +125	ĉ

Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

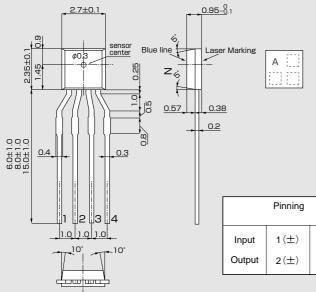
Electrical Characteristics(Ta=25°C)

Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Output Hall Voltage	V _H *	Const. Voltage Drive B=50mT, V _C =1V	228		370	mV
Input Resistance	R _{in}	B=0mT, I _C =0.1mA	240		550	Ω
Output Resistance	Rout	B=0mT, I _C =0.1mA	240		550	Ω
Offset Voltage	V _{OS} (Vu)	B=0mT, V _C =1V	-7		+7	mV
Temp. Coefficient of V_H	αV _H	Average on 0~40°C B=50mT, I _C =5mA		-1.8		%/C
Temp. Coefficient of Rin	αR _{in}	Average on 0~40°C B=0mT, I _C =0.1mA		-1.8		%/C
Dielectric Strength		100V D.C	1.0			MΩ

Notes : 1. $V_{H} = VHM - V_{os}(Vu)$ (VHM:meter indication)

2. $\alpha V_{H} = \frac{1}{V_{H}(T_{1})} X \frac{V_{H}(T_{3}) - V_{H}(T_{2})}{(T_{3} - T_{2})} X 100$ 3. $\alpha R_{in} = \frac{1}{R_{in}(T_{1})} X \frac{R_{in}(T_{3}) - R_{in}(T_{2})}{(T_{3} - T_{2})} X 100$ $T_{1} = 20^{\circ}C, T_{2} = 0^{\circ}C, T_{3} = 40^{\circ}C$

Dimensional Drawing (Unit : mm)



 $3(\mp)$

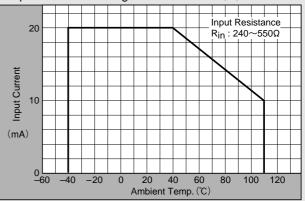
 $4(\mp)$



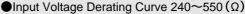
Classification of Output Hall Voltage (V_H)

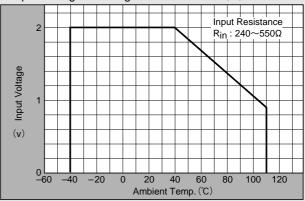
Rank	V _H [mV]	Conditions
E	228 ~ 274	
F	266 ~ 320	B=50mT, V _C =1V
G	310 ~ 370	Constant Voltage Drive

•Input Current Derating Curve $240 \sim 550 (\Omega)$



Note : $R_{\rm in}$ of Hall element decreases rapidly as ambient temperature increases. Ensure compliance with input current derating curve envelope, throughout the operating temperature range.

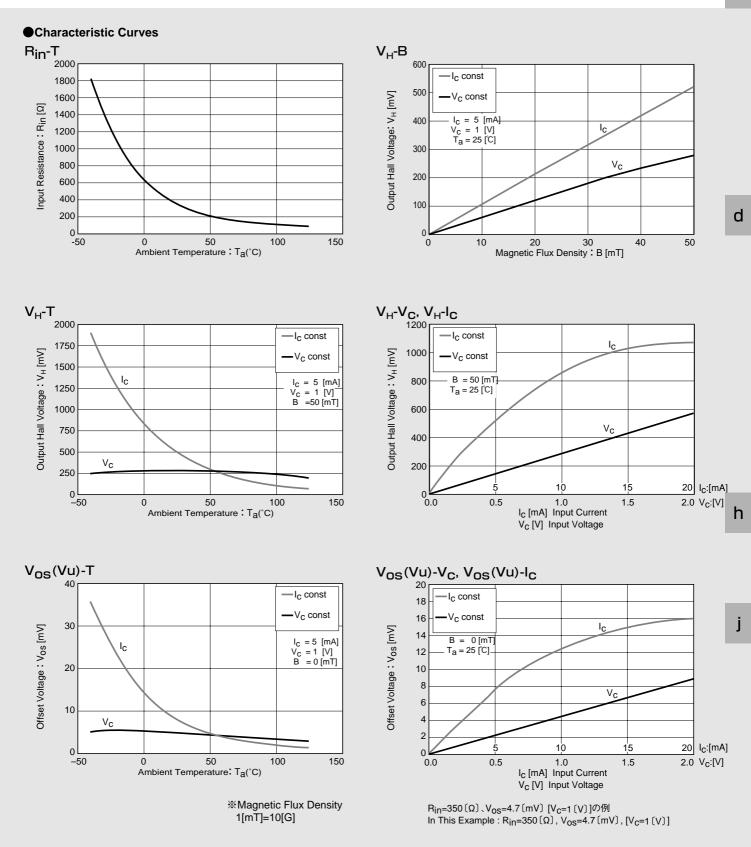




Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

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