

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

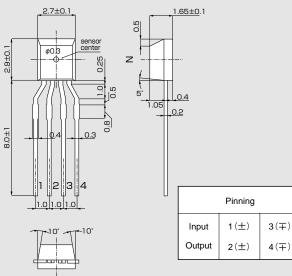
●Electrical Characteristics(Ta=25℃)

| ltem | Symbol | Conditions | Min. | Тур. | Max. | Unit |
|-------------------------------------|----------------------|--|------|------|------|------|
| Output Hall Voltage | V_{H}^{*} | Const. Voltage Drive B=50mT, V _C =1V | 168 | | 320 | mV |
| Input Resistance | R _{in} | B=0mT, I _C =0.1mA | 240 | | 550 | Ω |
| Output Resistanc | 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℃ 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)



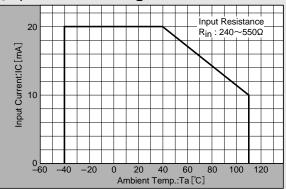


Classification of Output Hall Voltage (V_H)

| Rank | V _H [mV] | Conditions | | |
|------|---------------------|--|--|--|
| В | 144 ~ 174 | | | |
| С | 168 ~ 204 | | | |
| D | 196 ~ 236 | B=50mT, V _C =1V Constant Voltage Drive | | |
| Е | 228 ~ 274 | Constant Voltage Drive | | |
| F | 266 ~ 320 | | | |

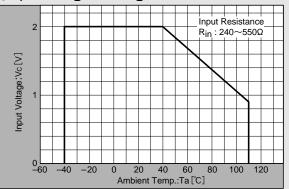
Note : When ordering, specify 3-rank or wider range(e-g-,C,D,E).

Input Current Derating Curve



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

Input Voltage Derating Curve

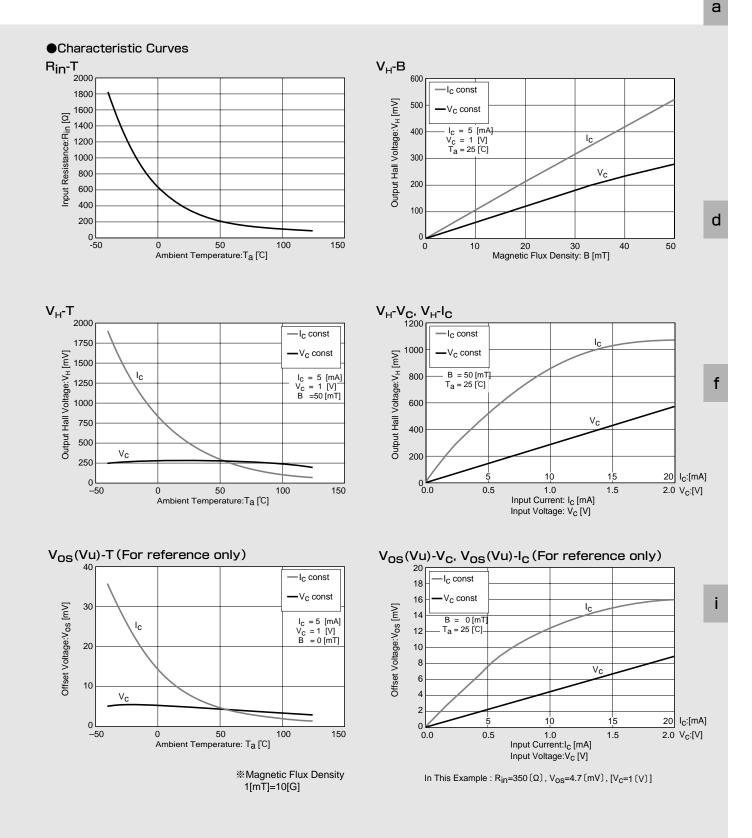


Note : For constant-voltage drive, stay within this input voltage derating curve envelope.

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