HZ-116C

HZ-116Cはスーパーミニモールド型InAsホール素子です。 標準はテーピングリール供給です。(2,500pcs./Reel)

注意:弊社製品のご検討にあたっては本カタログの表紙裏の「重要注意事項」を 良くお読みください。

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.

●最大定格 (Ta=25℃) Absolute Maximum Ratings

項 目 Item	記号 Symbol		定 格 Limit	単 位 Unit	
最大制御電流 Max. Input Current	Ic	25°C 定電流駆動 Const. Current Drive	17	mA	
動作温度 Operating Temp. Range	Topr.		-40 ~ +125	°C	
保存温度 Storage Temp. Range	Tstg.		−40 ~ +150	°C	

●電気的特性(測定温度 25°C) Electrical Characteristics(Ta=25°C)

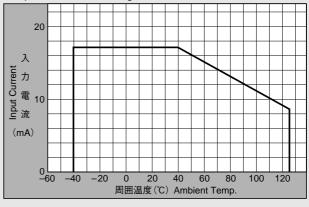
項 目 Item	記号 Symbol	測 定 条 件 Conditions	最小 Min.	標準 Typ.	最大 Max.	単位 Unit
ホール出力電圧 Output Hall Voltage	V _H	定電流駆動 Const. Current Drive B=50mT, I _C =5mA	24		33	mV
入 力 抵 抗 Input Resistance	Rin	B=0mT, I_{C} =0.1mA	240		360	Ω
出力抵抗 Output Resistance	R _{out}	B=0mT, I_C =0.1mA	240		360	Ω
不平衡電圧 Offset Voltage	V _{OS} (V _U)	B=0mT, I _C =5mA	-2.5		2.5	mV
出力電圧の温度係数 Temp. Coefficient of V _H	αV _H	B=50mT, I _C =5mA Ta=25~125°C	-0.07		-0.11	%/C
入力抵抗の温度係数 Temp. Coefficient of R _{in}	αRin	B=0mT, $I_{\rm C}$ =0.1mA Ta=25 \sim 125 $^{\circ}$ C	0		0.2	%/C

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

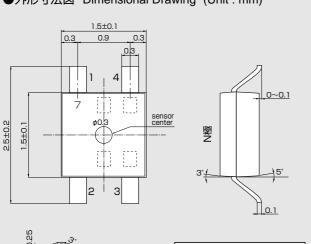
 $\begin{array}{l} 2. \ \alpha V_H = \frac{1}{V_H \left(T_1\right)} \, X \, \frac{V_H \left(T_2\right) - V_H \left(T_1\right)}{\left(T_2 - T_1\right)} \, X \, 100 \\ 3. \ \alpha R_{in} = \frac{1}{R_{in} \left(T_1\right)} \, X \, \frac{R_{in} \left(T_2\right) - R_{in} \left(T_1\right)}{\left(T_2 - T_1\right)} \, X \, 100 \end{array}$

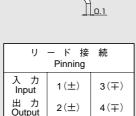
 $T_1 = 25^{\circ}C, T_2 = 125^{\circ}C$

●最大入力電流 入出力抵抗 240~360(Ω)静止気中 Input Current Derating Curve

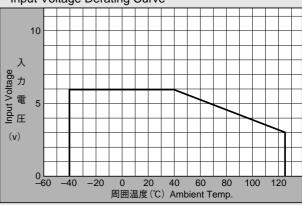


●外形寸法図 Dimensional Drawing (Unit:mm)





●最大入力電圧 入出力抵抗 240~360(Ω)静止気中 Input Voltage Derating Curve



0.35

b

С

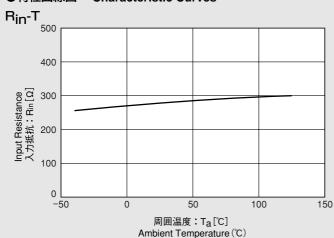
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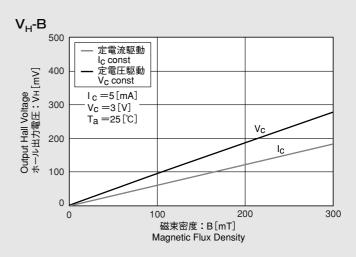
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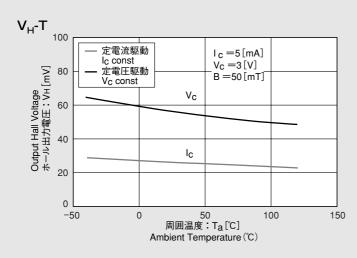
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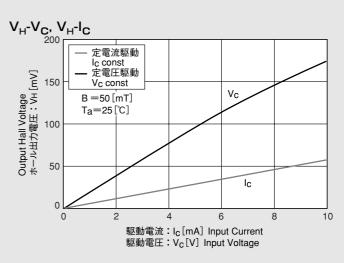
- 製品はある確率で故障する可能性がございます。医療機器、自動車、航空宇宙用機器、原子力制御用機器等、その装置・機器の故障や動作不良が、直接または間接を問わず、生命、 身体、財産等へ重大な損害を及ぼすことが通常予想されるような極めて高い信頼性を要求される用途に弊社製品を使用される場合は、必ず事前に弊社の書面による同意をおとり
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- Certain applications using semiconductor devices may involve potential risks of personal injury, property damage, or loss of life. In order to minimize these risks, adequate design and operating safeguards should be provided by the customer to minimize inherent or procedural hazards. Inclusion of our products in such applications is understood to be fully at the risk of the customer using our devices or systems.
- ●当製品にはガリウムヒ素 (GaAs) が使用されています。取り扱い及び廃棄に注意してください。 ●This product contains galium arsenide (GaAs) .Handling and discarding precautions required.

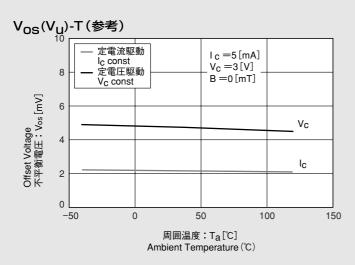
●特性曲線図 **Characteristic Curves**





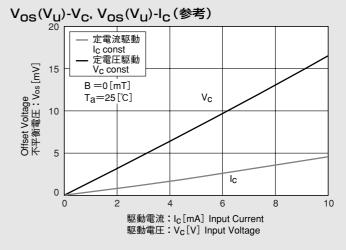






% Magnetic Flux Density

1 [mT] =10 [G]



定電流駆動 同上素子

定電圧駆動 R_{in} =275 $[\Omega]$ 、 V_{os} =4.7 [mV] [Vc=3[V]] の例 in This Example: R_{in} =275 (Ω) V_{os} =4.7 (mV) [Vc=3 (V)]