SH-72DZ_(Symmetry)

GaAs Hall Sensor

Shipped in packet-tape reel (10,000pcs per reel) Notice : Please check the important points on the back of this catalog when reviewing this product.

Absolute Maximum Ratings

| Ũ | | | | | | |
|--------------------------|--------|------------|------|--|--|--|
| Parameter | Symbol | Rating | Unit | | | |
| Maximum Input Current | Vc | Vc 10 | | | | |
| Maximum Input Power | PD | 150 | mW | | | |
| Operating Temp. Range | Topr | -40 ~ +120 | °C | | | |
| Storage Temp. Range | Tstg | -40 ~ +150 | °C | | | |

Electrical Specifications

| Parameter | Symbol | Conditions | Min. | Max. | Unit |
|------------------------------|--------|--------------------------------|------|-------|------|
| Output Hall Voltage | Vh | Vc=6V, B=50mT | 90 | 120 | mV |
| Input Resistance | Rin | Ic=0.1mA, B=0mT | 650 | 850 | Ω |
| Output Resistance | Rout | Ic=0.1mA, B=0mT | 650 | 850 | Ω |
| Offset Voltage | Vo | Vc=6V, B=0mT | Ą | +8 | mV |
| Temp. Coeff. Of Vh | αVh | Ta=25~125°C B=50mT, lc=5mA | | -0.07 | %/°C |
| Temp. Coeff. Of Rin, Rout | αRin | Ta=25~125°C B=0mT, lc=0.1mA | | 0.3 | %/°C |

※ Note.

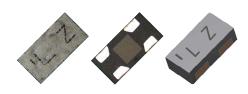
1) Vh = Vhm - Vo (Vhm : measured at 50mT)

2)
$$\alpha Vh = \frac{1}{Vh(T_1)} \times \frac{Vh(T_2) - Vh(T_1)}{(T_2 - T_1)} \times 100\%$$

3) $\alpha Rin = \frac{1}{Rin(T_1)} \times \frac{Rin(T_2) - Rin(T_1)}{(T_2 - T_1)} \times 100\%$
4) $\triangle K = \frac{K(B_1) - K(B_2)}{[K(B_1) + K(B_2)]/2} \times 100\%$

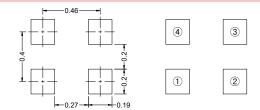
5) $T_1 = 25^{\circ}C$, $T_2 = 125^{\circ}C$ B₁ = 0.5T, B₂ = 0.1T $K = \frac{Vh}{I_c * B}$

Marking (by Laser)

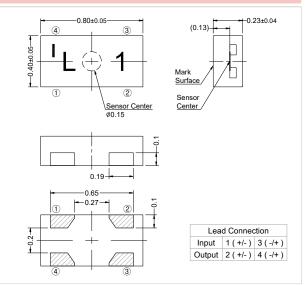


X 1'st Character & Bar : Production Year/Month 2'nd Character : Production Date

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



Dimension Drawing (Unit : mm)



This product is not guaranteed or intended to be used for highly reliable purposes, such as medical, aerospace, transport, traffic signal, combustion, nuclear control, and various safety devices, in which failure or malfunction of the equipment is usually expected to cause serious damage to life, body, property, etc. Therefore, please do not use this product for these purposes unless otherwise authorized by us in writing. In the unlikely event that this product is used for these purposes, we shall not be liable for any damages arising from such use.



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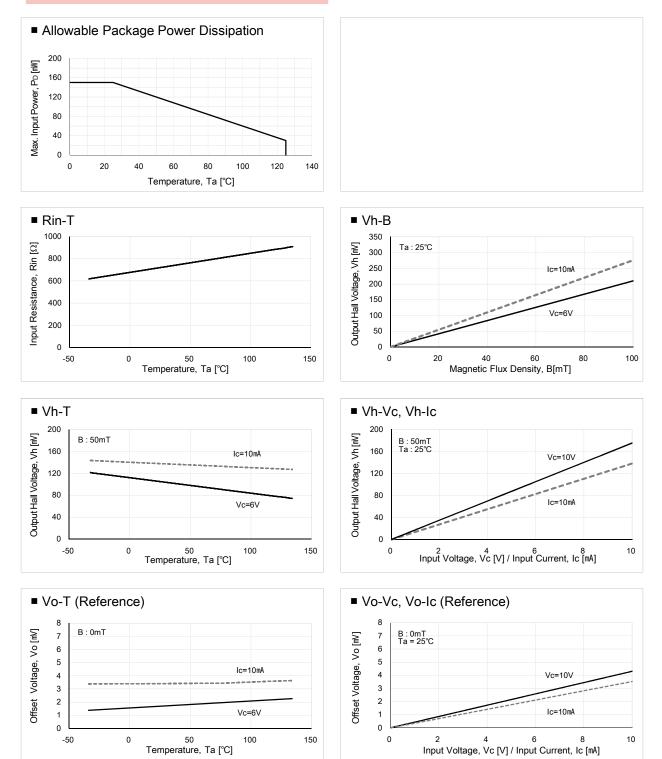
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Characteristic Curves



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