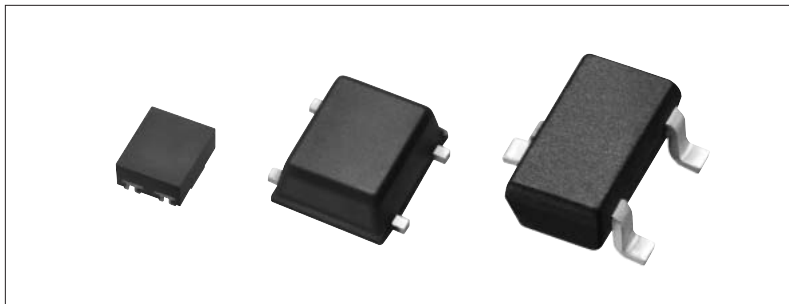


Magnetic Sensors Highly Reliable Magnetic Sensor Switching Output Type

HGDE□ Series

Contributes to increased flexibility in set design through a diverse lineup. High reliability achieved through high precision and compactness. Low-profile types made possible through magnetic sensing device technologies.



Magnetic Sensor
Resistive Sensor

Features

- High flexibility in sensitivity design (from high to low sensitivity).
- Compact and low-profile (1.1×0.9×0.55mm for the MAP Type).
- Low current consumption (3.0μA at VDD=1.8V.).
- Diverse lineup (functions, operating magnetic field and package specifications).

Applications

- Detects opening and closing of lids and doors of all types of consumer products, including mobile phones, laptop PCs, electronic home appliances and more.

Typical Specifications

Items	Specifications
Drive voltage	Typ. 1.8V (1.6V min. to 3.6V max.)
Current consumption	3.0μA Ave. (at VDD=1.8V)

Product list

Package Specifications/Size	Function	Model No.	Operating magnetic field
MAP Type (Mold Array Package) 1.1×0.9×0.55mm	Single Polarity/Single Output	HGDESM021A	2.0mT
		HGDESM031A	3.0mT
	Dual Polarity/Single Output	HGDEPM021A	2.0mT
		HGDEPM031A	3.0mT
	Dual Polarity/Dual Output	HGDEDM021A	2.0mT
		HGDEDM031A	3.0mT
SON Type (Small Outline Nonleaded) 2.1×2.1×0.75mm	Single Polarity/Single Output	HGDESN021A	2.0mT
		HGDESN031A	3.0mT
	Dual Polarity/Single Output	HGDEPN021A	2.0mT
		HGDEPN031A	3.0mT
	Dual Polarity/Dual Output	HGDEDN021A	2.0mT
		HGDEDN031A	3.0mT
SOT23 Type 2.9×2.8×1.1mm	Single Polarity/Single Output	HGDEST021A	2.0mT
		HGDEST031A	3.0mT
	Dual Polarity/Single Output	HGDEPT021A	2.0mT
		HGDEPT031A	3.0mT

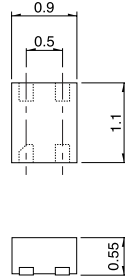
Dimensions

Unit:mm

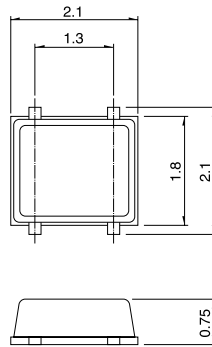
Magnetic
 Sensor
 Resistive
 Sensor

Style

MAP type



SON type



SOT23 type

