

## Description

The SH series Hall effect sensors are four terminal Indium Antimonide devices that are extremely sensitive to low magnetic fields. These devices produce an output voltage,  $V_H$ , proportional to the product of the input current,  $I_c$ , and the magnetic flux density,  $B$ .

## Features

- Low Cost
- Indium Antimonide
- Very High Sensitivity
- Low Current Requirement
- Choice of Mounting Configuration

## Models

1. SH-400
2. SH-410
3. SH-420
4. SH-430

SPECIFICATIONS	UNITS	SH-400	SH-410	SH-420	SH-430
Input resistance, $R_{in}$	ohms	240 to 550	240 to 550	240 to 550	240 to 550
Output resistance, $R_{out}$	ohms	240 to 550	240 to 550	240 to 550	240 to 550
Magnetic sensitivity, $V_H$ (1)	mV/kg	292 to 1,120	290 to 1,760	100 to 330	290 to 1,760
Max. resistive residual voltage, $V_M$ @ $B=0$ (1)	$\pm$ mV	20	20	16	20
Max. control current @ 25°C, static air	mA	20	20	20	20
Nominal control current, $I_{cn}$	mA	5	5	5	5
Mean temperature coefficient of $V_H$ (0°C to +40°C) (1)	%/°C	-1.8	-1.8	-1.8	-1.8
Mean temperature coefficient of resistance (0°C to +40°C) (2)	%/°C	-1.8	-1.8	-1.8	-1.8
Operating temperature range	°C	-40 to +110	-40 to +110	-40 to +110	-40 to +110
Storage temperature range	°C	-40 to +125	-40 to +125	-40 to +125	-40 to +125

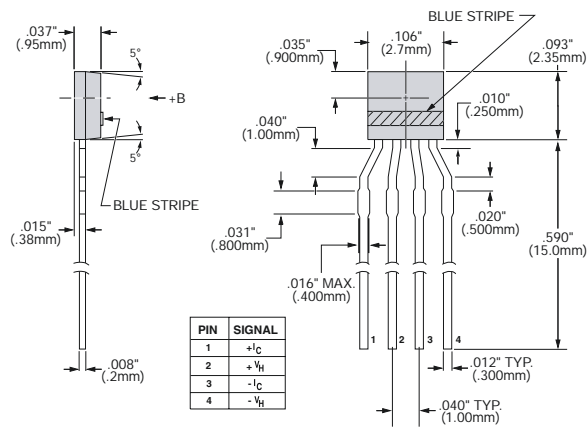
## Notes

- (1) Nominal Control Current,  $I_{cn}=5$  mA
- (2) Control Current=0.1 mA

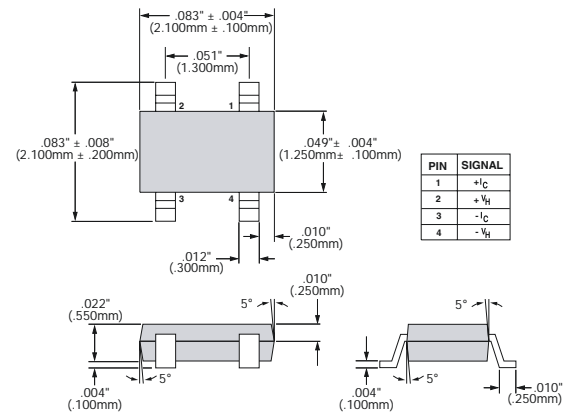
## Mechanical Specifications

All dimensions are in inches (millimeters).

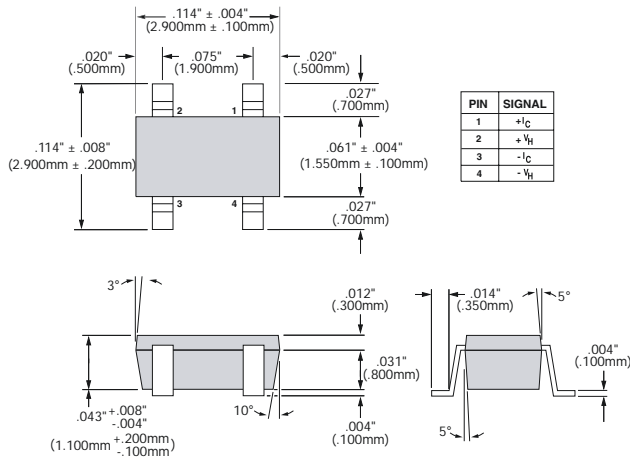
### 1. Model SH-400



### 3. Model SH-420



### 2. Model GH-601



### 4. Model SH-430

