

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

SH-400
SH-410
SH-420
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



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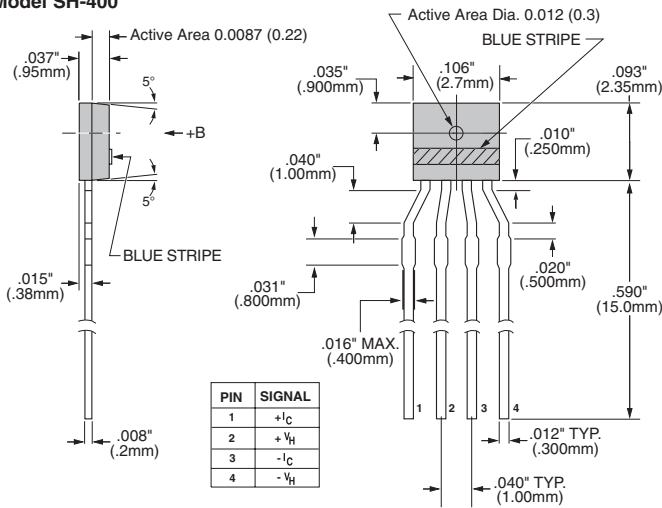
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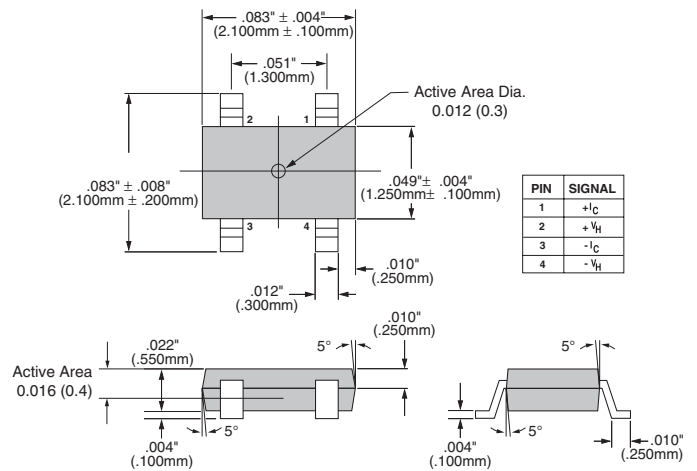
Mechanical Dimensions

All dimensions are in inches (millimeters)

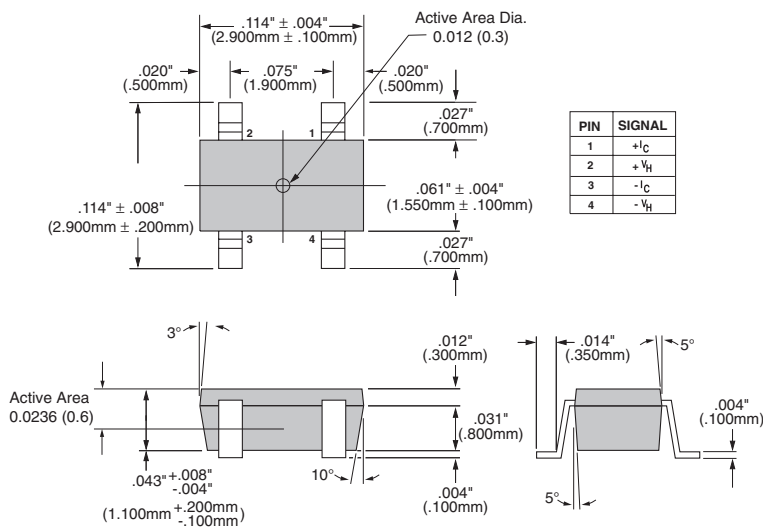
Model SH-400



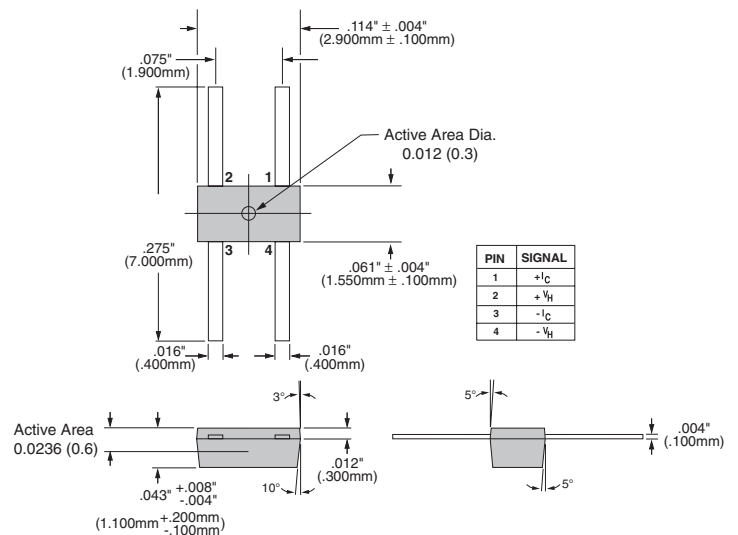
Model SH-420



Model SH-410



Model SH-430



Note: Due to continuous process improvement, all specifications are subject to change without notice.



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