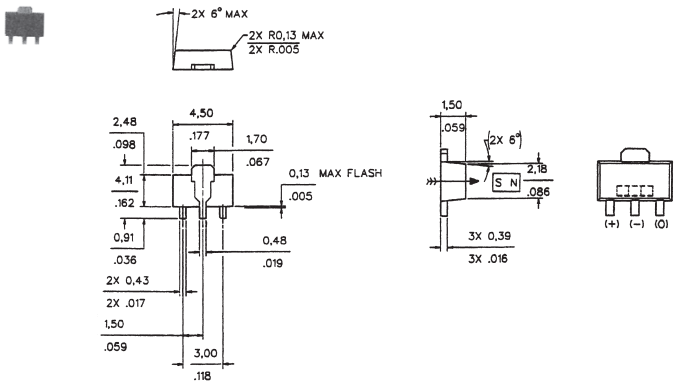
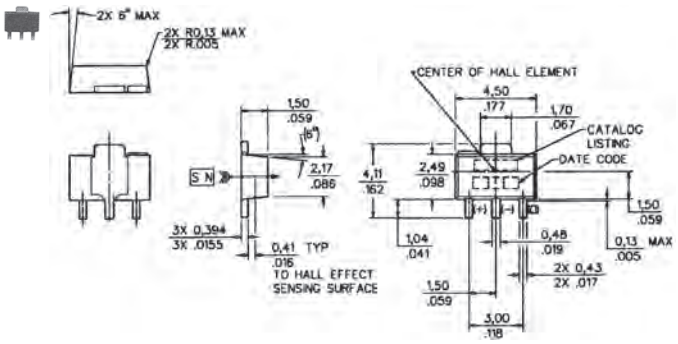


SS1T SERIES SOLID STATE SENSORS

DIGITAL POSITION SENSORS

FEATURES: Small-size SOT89 style package (.177″× .136″× 0.59″) surface mounts on PC boards and flexible circuits. Reverse polarity protection. Current sinking output. Sensitive magnetic characteristics. Comptabile with pick-and-place equipment for automated assembly operations. Operating speed: 0 to over 100 kHz.

Cat. No.	Supply Voltage VDC	Supply Voltage mA	Output Voltage	Sinking Output	Net Price
DIGITAL POSITION SENSORS					
SS1T	4.5 to 24	4 typ., 8.7 max.	0.15 typ., 0.40 max.	20 max.	**$1.55**

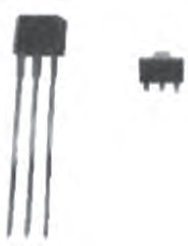


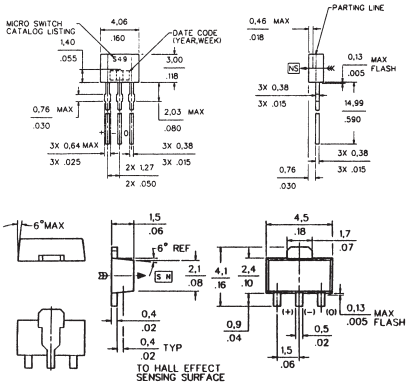
SS50 SERIES SOLID STATE SENSORS

SURFACE MOUNT DIGITAL POSITION SENSORS

The temperature compensated hall effect sensor consists of a quad hall sensing element in a square integrated circuit chip, which is then encapsulated in a glass-filled thermoset molding material. The small SOT89 style package surface mounts on PC boards and flexible circuits. The integrated circuit is thermally balanced for predictable performance over the full temperature range of –40˚C to +125˚C. Built-in temperature compensation has negative slope (operate and release points decrease as temperature increases). This slope is optimized to match the negative temperature coefficient of low cost magnets, to track their performance over temperature. Band gap regulation provides extremely stable operation over the full supply voltage range of 3.8 to 30VDC. SS100 sensors are capable of continuous 20mA sinking output, and can withstand temporary current as high as 50mA absolute maximum. They can use existing power supply sources in most applications, and can be directly interfaced with many electronic components without buffering or compensation circuitry. **FEATURES;** Super high sensitivity available. Symmetry of operate/release points about zero gauss (bipolar/latching). Low currrent consumption (7mA typical @ 5V, 25,deg>C). Supply voltage:3.8 to 30 VDC. Supply current (max.): 10mA, Output type: sink. Output voltage (max.): .40V. Output current (max.): 20 mA. Leakage current (max.): 10µA.

Cat. No.	Magnetic Type	Magnetic Characteristics Max. OP Gauss	Min. Rel. Gauss	Min. Diff. Gaus	Net Price
DIGITAL POSITION SENSORS @ 25˚C					
SS511AT	Bipolar	60	–60	15	**$2.06**
SS543AT	Unipolar	180	75	25	**1.79**
SS549AT	Unipolar	390	235	30	**1.79**
SS561AT	Latching	85	–85	50	**2.06**
SS566AT	Latching	180	–180	200	**1.85**





MICRO SWITCH SS49/SS19 ANALOG POSITION SENSORS

SS49/SS19 Analog Position Sensors require a 4 to 10VDC, low supply current capability 4mA Typical for battery operation. The sourcing ratiometric output has high current capability—10mA continuous, 20mA max. with linear output voltage over a wide magnetic flux range. Housed in a very small, industry accepted package they respond to either North or South pole magnets.

Cat. No.	Supply VDC	Supply mA	Output Type	Output Volts*	Sensitivity§ mV/gauss	Net Price
ANALOG POSITION SENSORS						
SS49	4-10	4	Sourcing	1.75-2.25	0.6-1.25	**$1.48**

* Output Voltage @ 0 Gauss @ 5V, 25˚C.
§ Sensitivity is measured between –400 and +400 gauss.
† Surface Mount SOT-23 case.

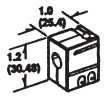


FIG. 1

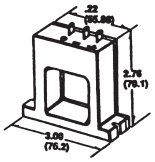


FIG. 2

CSD SERIES DIGITAL OUTPUT CURRENT SENSORS

CSD series solid-state sensors detect absence/presence of current with digital current sink output. Response time: 100µsec. Output voltage: 0.4VAC or DC. Changes from V_S to 0.4V at operating current. Output current: 20mA, except type CSDB1CC: 100mA. NOTE: Thru-hole design does not require electrical connection to sensed current. Max. Sensed current is only limited by the conductor size.

Cat. No.	Fig.	Supply Voltage	Operating Current (max)*	Net Price
CSDA1BA	1	6 to 16VDC	0.88A-Turns	**$15.60**
CSDA1BC	1	6 to 16VDC	6.50A-Turns	**16.39**
CSDB1CC	2	8 to 16VDC	6.50A-Turns	**78.07**
CSDC1BA	1	5±0.2VDC	0.88A-Turns	**17.76**
CSDA1AA	1	6 to 16VDC	0.88A-Turns	**17.55**
CSDC1DA	1	5±0.2VDC	0.88A-Turns	**22.51**
CSDA1DA	1	6 to 16VDC	0.88A-Turns	**18.13**

*At +25˚C.