

Honeywell Sensing and Control



SS41



SS40 Series Bipolar Hall-Effect Digital Position Sensor; radial lead IC package

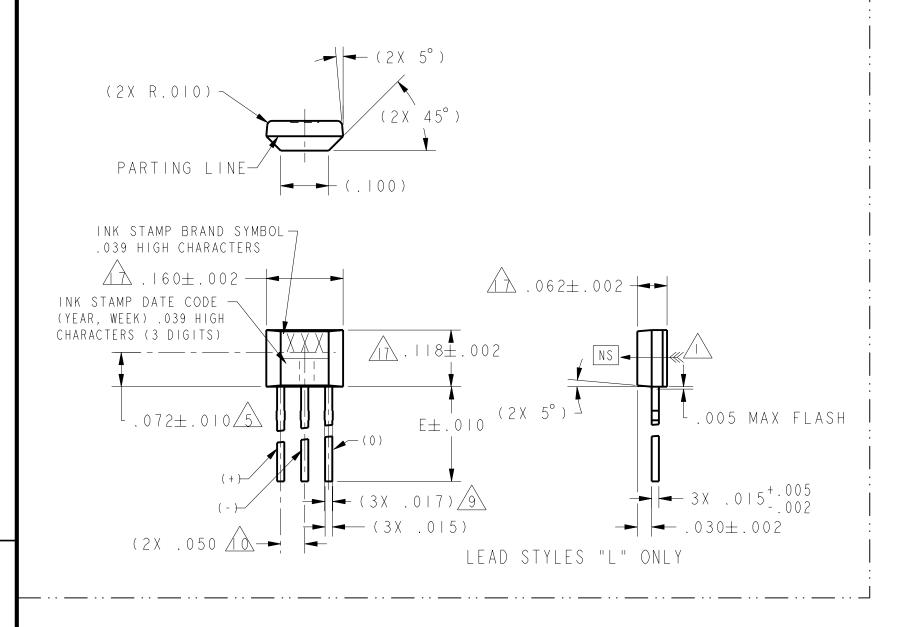
Features

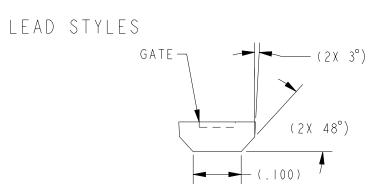
- Small size
- Reverse power polarity protection
- Current sinking output
- Sensitive magnetic characteristics
- Operating speed from 0 kHz to over 100 kHz

Product Specifications				
Product Type	Hall-Effect Digital Position Sensor			
Package Quantity/Type	Available in 1,000/Bag			
Package Style	Radial Lead IC			
Supply Voltage	4.5 Vdc to 24.0 Vdc			
Output Type	Sink			
Magnetic Actuation Type	Bipolar			
Operating Temperature Range	-55 °C to 150°C [-67 °F to 302 °F]			
Output Voltage	0.15 Vdc typ./0.40 Vdc max.			
Switching Time Rise (10 % to 90 %)	1.5 µs max.			
Switching Time Fall (90 % to 10 %)	1.0 μs max.			
Availability	Global			
Supply Current (max. @ 25 °C)	15 mA			
Output Current (max.)	20 mA			
Operate Point @ 25 °C	4.0 mT [40 G] typ.			
Release Point @ 25 °C	-4.0 mT [-40 G] typ.			
Leakage Current max.	10 μΑ			

Differential	8.0 mT [80 G] typ.
Series Name	SS40







CHART

SS40 SERIES

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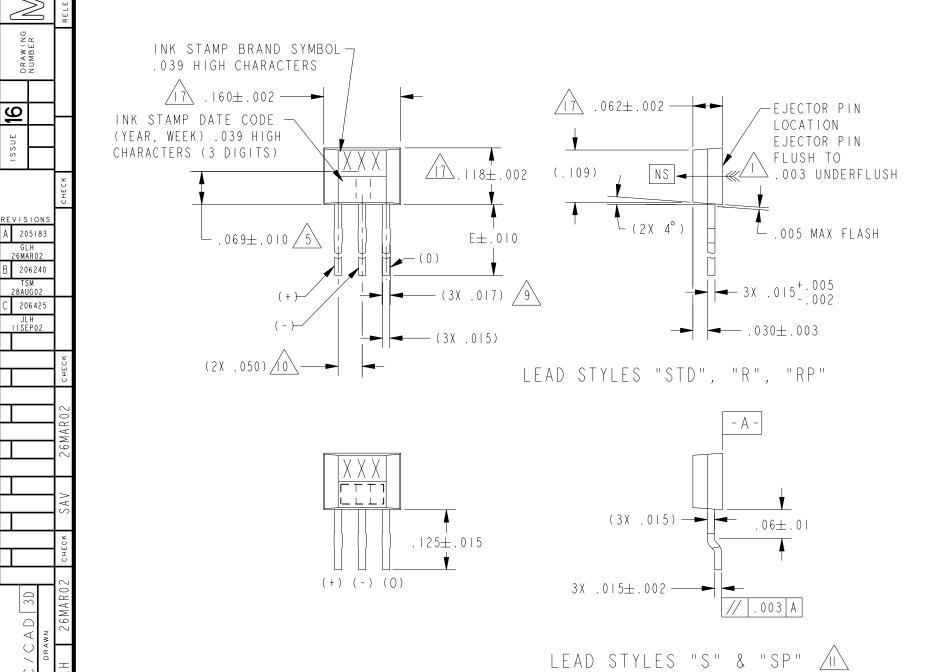
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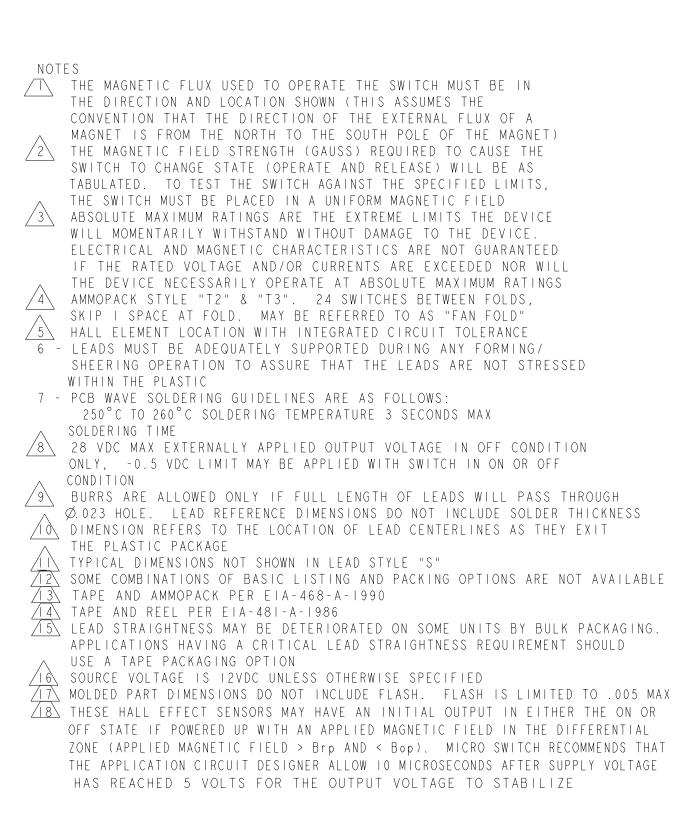
A 205183

GLH 26MAR02

C 206425 JLH IISEP02

ALL EXCEPT "L" LEAD STYLES





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MICRO SWITCH a Honeywell Division FED. MFG. CODE 91929

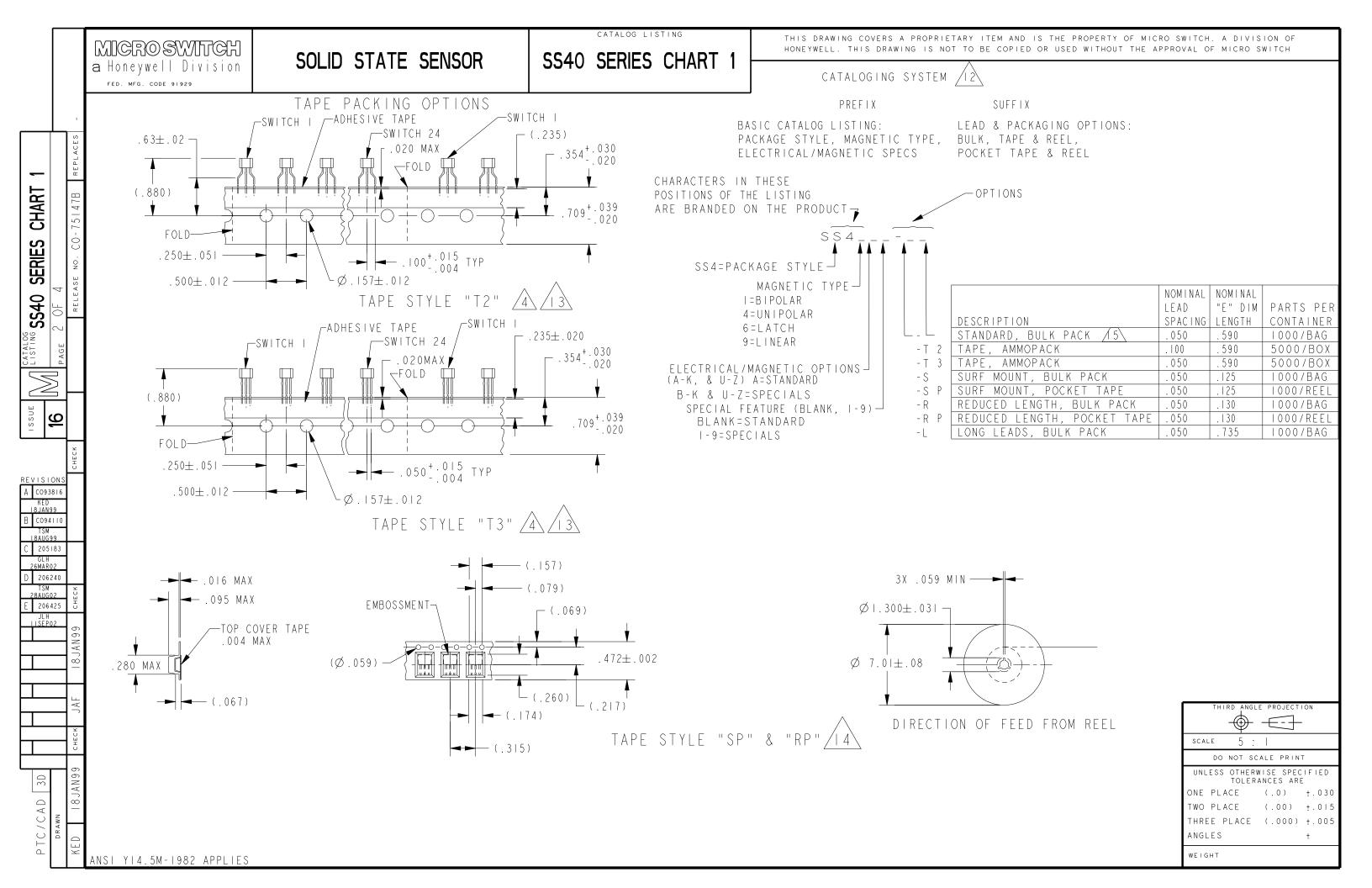
ANSI YI4.5M-1982 APPLIES

SOLID STATE SENSOR

SS40 SERIES CHART

⊕ -=-DO NOT SCALE PRINT UNLESS OTHERWISE SPECIFIED TOLERANCES ARE ONE PLACE (. 0) ± .030 TWO PLACES (.00) ±.015 THREE PLACES (.000) $\pm .005$ ANGLES WEIGHT

THIRD ANGLE PROJECTION



SS40 SERIES CHART 1

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CHART

SERIES

CISTING SS40

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A CO93816 KED 18JAN99

B C094110 TSM 18AUG99 C 205183 GLH 26MAR02 D 206240 TSM 28AUG02 206425

SOLID STATE SENSOR FED. MFG. CODE 91929

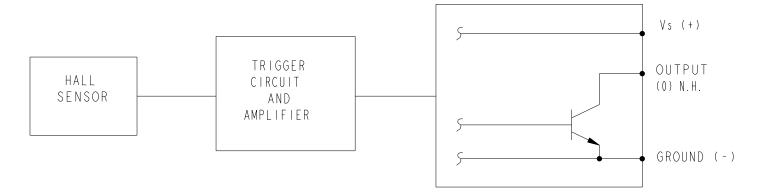
TABLE 1 - MAGNETIC AND ELECTRICAL SPECIFICATIONS 2 18

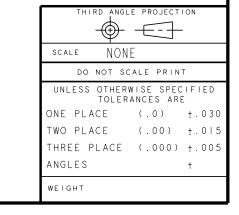
-40°C	0°C	25°C	85°C	125°C	150°C
NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS
200	150	150	150	200	250
340	340	340	340	NS	NS
-160	-160	-140	-150	-200	-250
- 340	- 340	- 340	- 340	NS	NS
NS	NS	NS	NS	NS	NS
NS	NS	NS	NS	NS	NS
40	50	50	50	60	60
40	40	40	40	NS	NS
	NS 200 340 -160 -340 NS NS	NS N	NS N	NS N	NS NS NS NS NS NS S NS NS NS NS NS S NS S NS

TABLE 2

	SS41	SS4ID
MAGNETIC TYPE	BIPOLAR	BIPOLAR
BRAND SYMBOL	S 4 I	S 4 I
PACKING	BAG	BAG
SPECIFIED VOLTAGE RANGE	4.5 - 24	4.5 - 24
MAX loff milliamp	10.0	10.0
MAX Ion milliamp	11.3	11.3
RATED SINK CURRENT Ma	20	20
MAX Vsat VOLTS 25°C /16	0.4	0.4
MAX LEAKAGE AT 24V, μΑ	10	10
RISE TIME AT 25°C		
10% TO 90% US	1.5	1.5
FALL TIME AT 25°C		
90% TO 10% US	1.5	1.5
STORAGE TEMP °C	-40 TO +150	-40 TO +150
OPERATING TEMP °C	-40 TO +150	-40 TO +85

ABSOLUTE LIMITS	S S 4 I	SS4ID
SUPPLY VOLTAGE	-28 TO +28	-24 TO +28
APPLIED OUTPUT		
VOLTAGE /8	-0.5 TO +28	-0.5 TO +28
OUTPUT CURRENT mA	20	20
MAGNETIC FLUX GAUSS	NO LIMIT	NO LIMIT





ANSI YI4.5M-1982 APPLIES