

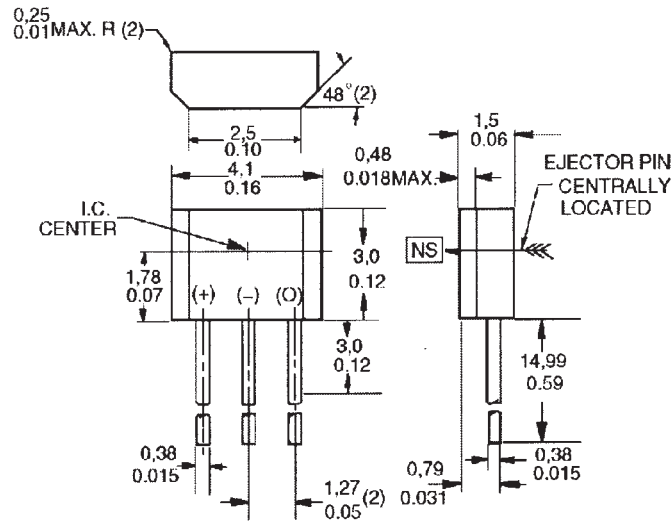
# Solid State Sensors

## Digital Bipolar Position Sensors

SS40



### MOUNTING DIMENSIONS (For reference only)



### FEATURES

- Small size (.16" x .12")
- Reverse power polarity protection
- Current sinking output
- Sensitive magnetic characteristics
- Operating speed from 0 to over 100 kHz
- Operating temperature range: -40° to 150°C

### SS40 ORDER GUIDE

Catalog Listings		SS41		
Supply Voltage (VDC)		4.5 to 24		
Supply Current (mA)		4 typ., 8.7 max. @ $V_s = 4.5V$ 6 typ., 15 max. @ $V_s = 6$ to 24V		
Output Type		Sink (20 mA max.)		
Output Voltage (V)		0.15 typ., 0.40 max. @ -40 to +125°C 0.15 typ., 0.45 max. @ 125 to 150°C		
Output Leakage Current (Released)		10 $\mu A$ Leakage into sensor		
Output Switching Time	Rise (10% to 90%)	0.2 $\mu s$ typ. 1.5 $\mu s$ max.		
	Fall (90% to 10%)	0.5 $\mu s$ typ. 1.0 $\mu s$ max.		
Magnetic Type		Bipolar		
Magnetic Char. & Temp.*	0 to 85°C	Max. Op.	G	mT
		Min. Rel.	150	15.0
		Min. Dif.	-150	-15.0
	-40 to 125°C	Max. Op.	50	5.0
		Min. Rel.	200	20.0
		Min. Dif.	-200	-20.0
	25°C Typ.	Typ. Op.	40	4.0
		Typ. Rel.	- 40	- 4.0
		Typ. Dif.	80	8.0
	-40 to 150°C	Max. Op.	250	25.0
		Min. Rel.	-250	-25.0
		Min. Dif.	30	3.0

\*G = Gauss  
mT = milliTesla.