SS345PT/SS445P

Table 1. SS345PT/SS445P Specifications (At 2.7 to 7 Vdc supply, 4 mA load, T_A = -40 °C to 150 °C [-40 °F to 302 °F]

Characteristic	Condition	Minimum	Typical	Maximum	Unit	
Supply voltage	-40 °C to 150 °C [-40 °F to 302 °F]	2.7	5.0	7.0	Vdc	
Supply current	G < 25 , Vs = 5 V, 25 °C [77°F]	_	5.5	-	mA	
	-40 °C to 150 °C [-40 °F to 302 °F]	_	_	14	IIIA	
Output current	_	_	_	4.0	mA	
Vsat	G > 260	_	_	0.4	Vdc	
Output leakage current	G < 25	_		10	μA	
Output rise time	25 °C [77 °F]	_	_	1.5		
Output fall time	25 °C [77 °F]	_	-	1.5	μs	
Thermal resistance:						
SS345PT	_	_	303	-	°C/W	
SS445P		_	233	_		
Operate	-40 °C to 150 °C [-40 °F to 302 °F]	55	180	280	G	
Release	-40 °C to 150 °C [-40 °F to 302 °F]	25	105	240	G	
Differential	-40 °C to 150 °C [-40 °F to 302 °F]	10	75	140	G	
Operating temperature	-	-40 [-40]	_	150 [302]	°C [°F]	
Storage temperature	_	-55 [-67]	_	165 [329]	°C [°F]	

NOTICE

The magnetic field strength required to cause the switch to change state (operate and release) will be as specified in the magnetic characteristics. To test the switch against the specified magnetic characteristics, the switch must be placed in a uniform magnetic field.



Table 2. SS345PT/SS445P Absolute Maximum Ratings¹

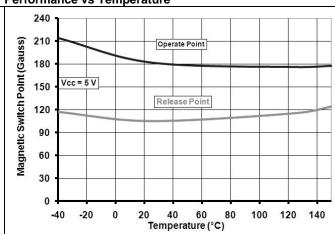
Characteristic	Minimum	Typical	Maximum	Unit
Supply voltage	-0.5	_	7.0	V
Applied output voltage	-0.5	_	7.0	V
Output current	_	_	8.0	mA
Magnetic flux	_	_	no limit	G

Note 1: Absolute maximum ratings are the extreme limits that the device will withstand without damage to the device. However, the electrical and mechanical characteristics are not guaranteed as the maximum limits (above recommended operating conditions) are approached, nor will the device necessarily operate at absolute maximum ratings.

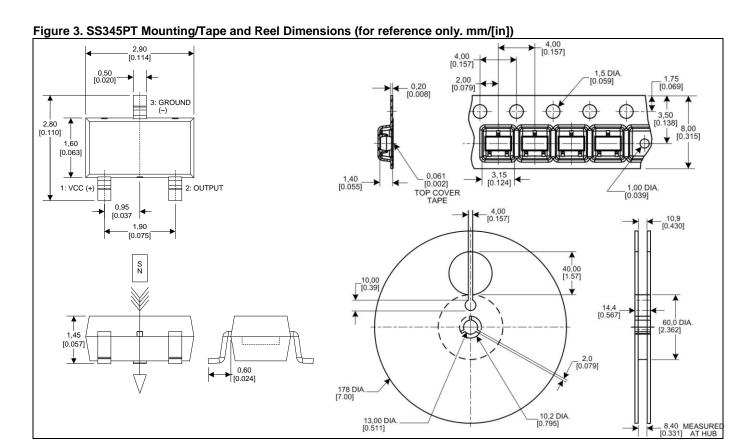
Figure 1. SS345PT/SS445P Current Sinking Output Block

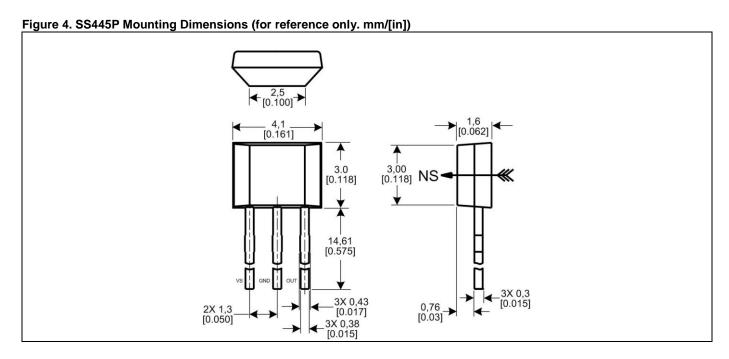
Diagram Vs (+) 10K TRIGGER OUTPUT (O) N.H. HALL CIRCUIT SENSOR AND **AMPLIFIER** GROUND (-)

Figure 2. Typical SS345PT/SS445P Magnetic Performance vs Temperature



Unipolar Hall-Effect Digital Position Sensors





Order Guide

Catalog Listing	Description
SS345PT	Unipolar, Hall-effect digital position sensor with built-in pull-up resistor, SOT-23 package, tape and reel
	packaging (3000 units per reel)
SS445P	Unipolar, Hall-effect digital position sensor with built-in pull-up resistor, flat TO-92 package, bulk packaging
	(1000 units per bag)



A WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.



WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. DO NOT USE this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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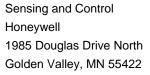
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