


# VF526DT

**Table 1. Absolute Maximum Ratings<sup>1</sup>**

Characteristic	Sym.	Min.	Max.	Unit
Supply voltage	Vcc	-0.5	30	V
Output voltage (OFF)	Vout	-0.5	30	V
Output ON current	Iout	–	10	mA
Storage temperature	Ts	-65 [-85]	160 [320]	°C [°F]
Operating temperature	T	-40 [-40]	150 [302]	°C [°F]
ESD: IEC 801-2, Lev 1 MIL-STD-883, Method 3015.7	ESD	2 4	– –	KV
Magnetic flux		no limit		–

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.

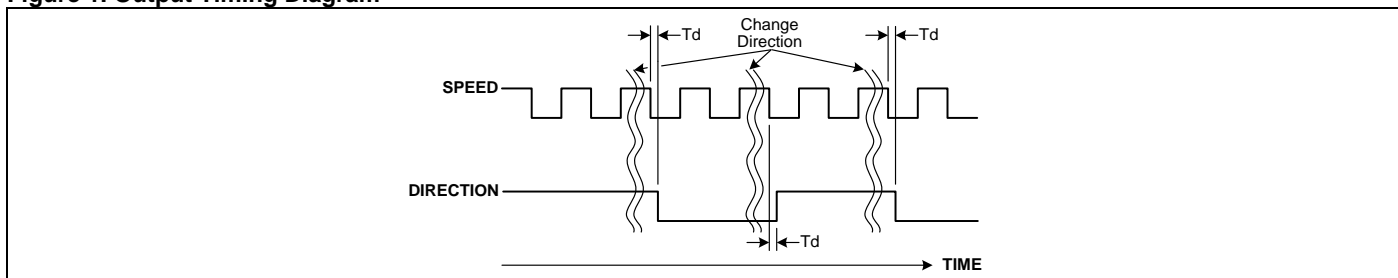


**ESD SENSITIVITY:  
CLASS 3**

**Table 2. Specifications**

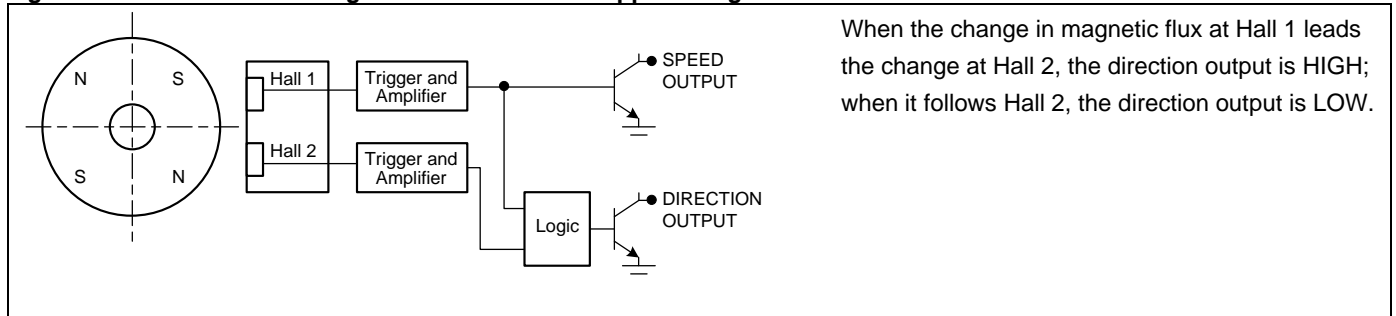
Characteristic	Sym.	Condition	Min.	Typ.	Max.	Unit
Magnetic actuation type		bipolar latch				
Output type		dual open collector, sinking (speed and direction)				
Supply voltage	Vcc	–	3.4	–	24	Vdc
Operating temperature	Temp	Vcc = 3.4 V to 24 V	-40 [-40]	–	125 [257]	°C [°F]
Supply current (OFF)	Ioff	Vcc = 24 V, -40 °C < T < 125 °C, Vout = 24 V, B<MIN REL	–	–	12	mA
Supply current (ON)	Ion	Vcc = 24 V, -40 °C < T < 125 °C, Isink = 5 mA, B<MAX OP	–	–	14	mA
Load current	Isink	Vcc = 24 V, -40 °C < T < 125 °C, Isink = 5 mA, B<MAX OP	–	–	5	mA
Output saturation	Vsat	Vcc = 24 V, -40 °C < T < 125 °C, Isink = 5 mA, B<MAX OP	–	–	0.4	V
Circuit speed to direct delay	Td	Vcc = 12 V, RL = 1.6 kOhm, CL = 20 pF	–	–	5	µs
Rise time	Tr	Vcc = 12 V, RL = 1.6 kOhm, CL = 20 pF	–	–	1.5	µs
Fall time	Tf	Vcc = 12 V, RL = 1.6 kOhm, CL = 20 pF	–	–	1.5	µs
Frequency	Top	Vcc = 12 V, RL = 1.6 kOhm, CL = 20 pF	<1	–	>1000	Hz
Operate point	Bop	T = 25 °C -40 °C < T < 125 °C	– 60	130 –	– 200	Gaus s
Release point	Brel	T = 25 °C -40 °C < T < 125 °C	– -60	-130 –	– -200	Gaus s
Differential (OP-REL)	Diff	T = 25 °C -40 °C < T < 125 °C	– 200	260 –	– 320	Gaus s
Symmetry ([OP +REL]/2)	Sym	T = 25 °C -40 °C < T < 125 °C	– -65	0 –	– 65	Gaus s
Package style		SOT-89B				
Moisture sensitivity test		similar to JEDEC J-STD-020B, MSL Level 1				
Package quantity		available in 1000/tape and reel				

**Figure 1. Output Timing Diagram**



# Bipolar Latch, Dual Hall-effect Digital Position Sensor with Speed and Direction Outputs

**Figure 2. Sensor Function Diagram with Customer-Supplied Magnet**



**Figure 3. Mounting Dimensions (For reference only. mm/[in.])**

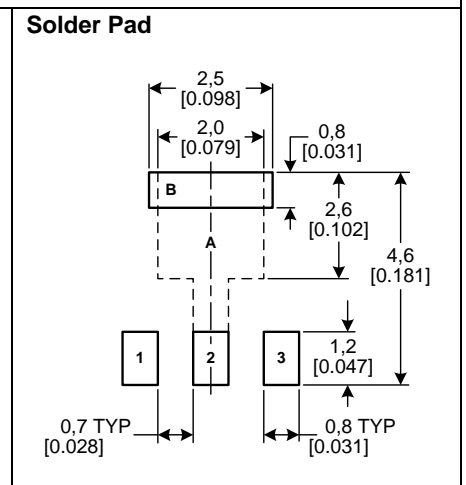
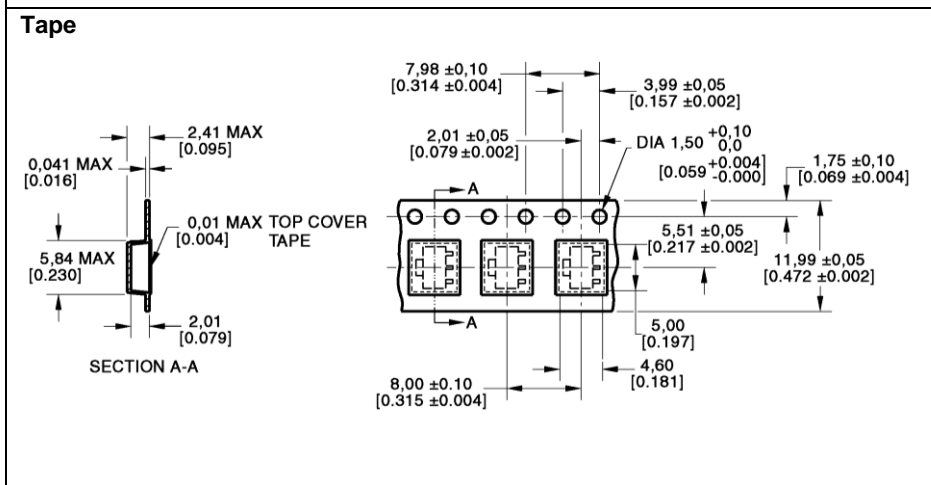
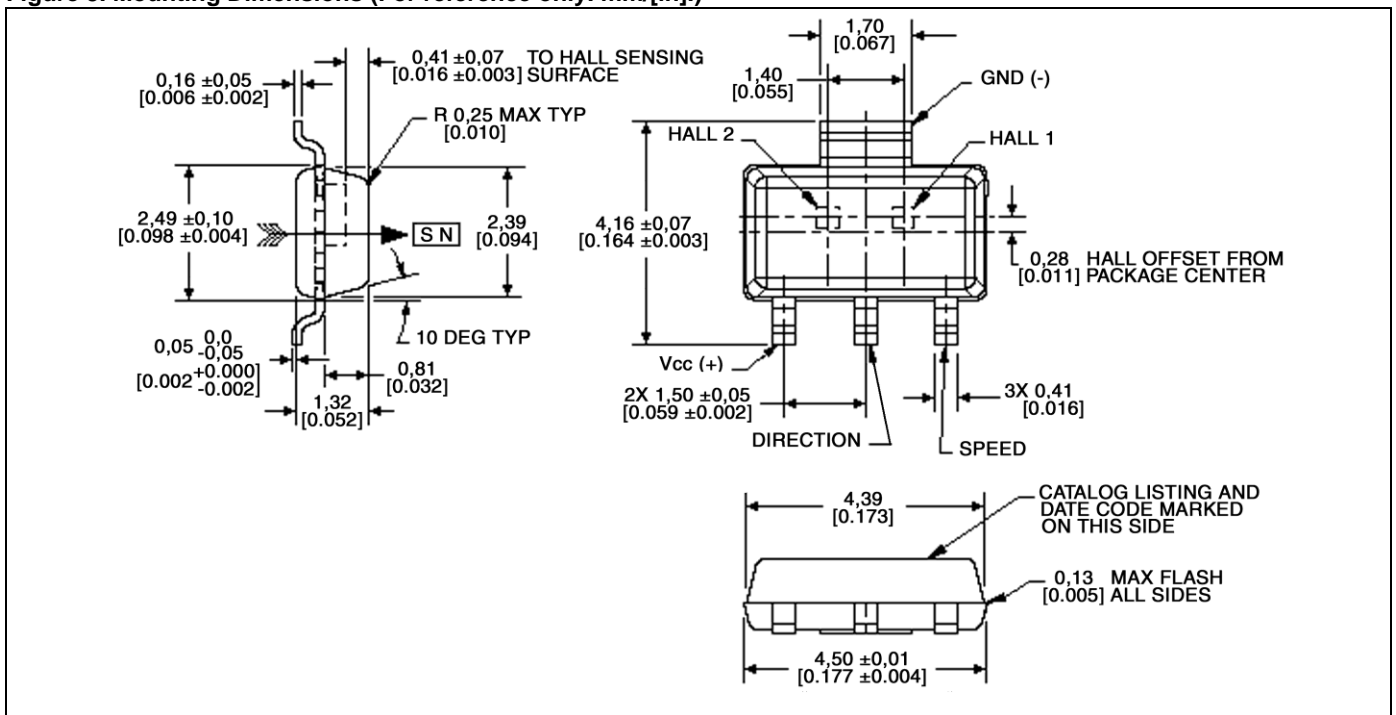
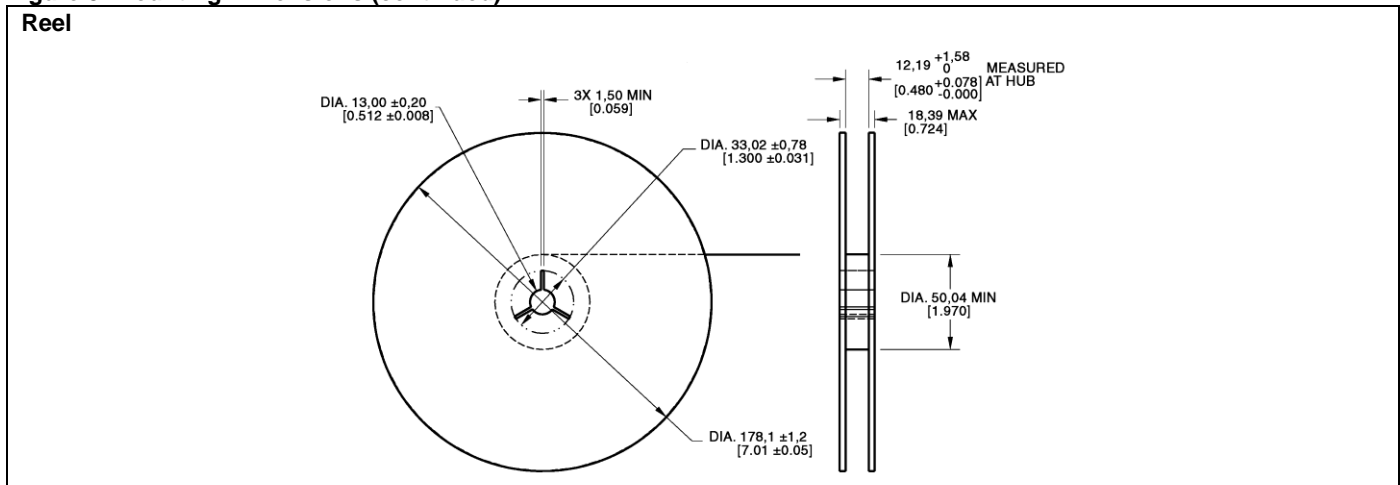


Figure 3. Mounting Dimensions (continued)



Order Guide

Catalog Listing	Description
VF526DT	Bipolar latch, dual hall-effect digital position sensor with speed and direction outputs, on tape and reel (1000 pcs per reel)

**⚠ 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.**

**⚠ WARNING**  
**PERSONAL INJURY**

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

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