



PT3925

Single coil Hall Driver IC

Applications

- Single coil DC brushless motor
- Support pre-driver application

Features

- Built-in hall sensor
- Single phase full wave driver
- Soft switching output driver
- Motor locked protection and automatic restart
- RD output
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency
- 8KV ESD capability

Specifications

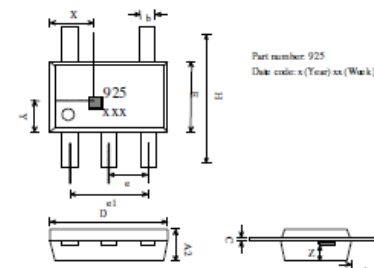
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		17	V
Maximum RD output voltage	V _{RDmax}		17	V
Maximum RD output current	I _{RDmax}		25	mA
Allowable power dissipation	Pd		500 ^{*1}	mW
Operating temperature	Ta		-40~+100	°C
Storage temperature	Ts		-50~+150	°C
Max. output current	Peak		1000	mA
	Hold	0.5sec	800 ^{*2}	mA
Junction Temperature	Tj		150	°C
Thermal resistance	Raj		250	°C/W
Back Electromotive Force	B-EMF	Output high voltage minus VDD	0.65	V

*1: Reduced by 4.0mW for each increase in Ta of 1°C over 25°C When mounted on 50mm x 50mm x 1.6mm glass epoxy board

*2: Should not exceed Pd

Package: TSOT25F-5pin



Part number: 925
Date: code x (Year) xx (Week)

SYMBOLS	DIMENSIONS IN MILLIMETERS/mm		
	MIN	NOM	MAX
A2	0.70	0.75	0.775
b	0.35	-	0.50
C	0.10	-	0.20
D	2.70	2.90	3.10
E	1.40	1.60	1.80
F	3.60	3.80	4.00
a	-	0.95	-
a1	-	1.90	-
L	-	1.10	-
SENSOR LOCATION			
X	0.85	1.00	1.15
Y	0.65	0.80	0.95
Z	-	0.25	-

1. RD output
2. GND/DC ground
3. O1/First output pin
4. O2/Second output pin
5. VDD/DC power supply