



Applications

- Single coils DC brushless motor

Features

- Built-in hall sensor
- Single phase full wave driver
- Soft switching output driver
- Motor locked protection and automatic restart
- Speed controllable by PWM input signal
- FG output
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency

Specifications

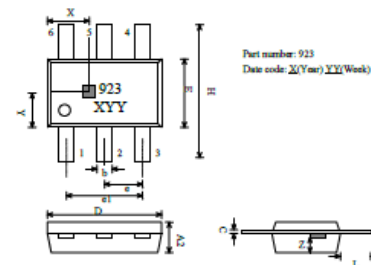
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	VDDmax		16	V
Maximum FG output voltage	V _{FGmax}		16	V
Maximum FG output current	I _{FGmax}		25	mA
Maximum PWM input voltage	V _{PWMmax}		16	V
Allowable power dissipation	Pd		500 ^{*1}	mW
Operating temperature	Ta		-40~+105	°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: TSOT26F-6pin



Part number: 923
Date code: XX(Year) XX(Week)

SYMBOLS	DIMENSIONS IN MILLIMETER(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
H	3.60	3.80	4.00
e	0.80	0.95	1.10
e1	1.70	1.90	2.10
L	0.95	1.10	1.25
SENSOR LOCATION			
X	0.85	1.00	1.15
Y	0.65	0.85	0.95
Z	0.20	0.25	0.30

- FG output
- GND/DC ground
- O1/First output pin
- O2/Second output pin
- PWM speed control input pin
- VDD/DC power supply