



# DC Brushless Motor Driver IC

## PL3929-A

### 12V Single coil Motor Driver IC with PWM control

#### Applications

- Single coil DC brushless motor

#### Features

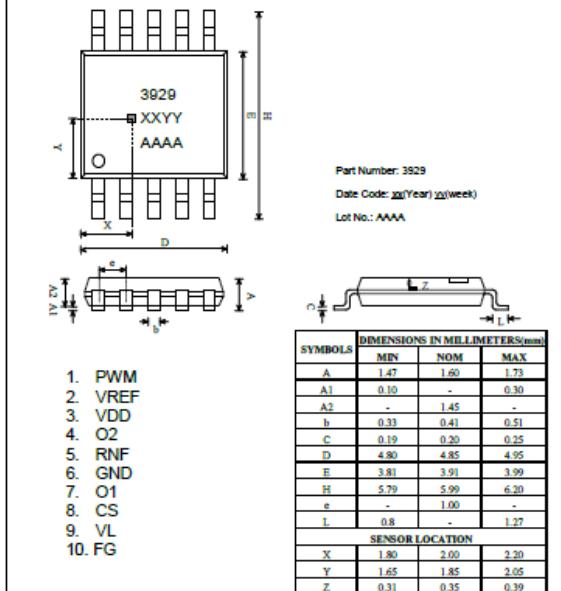
- Built-in hall sensor
- Single phase full wave driver
- Soft switching output driver
- Motor locked protection and automatic restart
- Speed controllable by DC/PWM
- FG output
- Current limit
- Low speed setting
- Quick start
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency
- RoHS compliance
- Moisture sensitivity level 3
- AEC Q100 qualified

#### Specifications

Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Rating	Units
Maximum supply voltage	$V_{DD\max}$		18	V
Allowable power dissipation	$P_d$		833 <sup>*1</sup>	mW
Operating temperature	$T_a$		-40~+105	°C
Storage temperature	$T_s$		-50~+150	°C
Max. output current	$I_{omax}$	0.5sec	1200 <sup>*2</sup>	mA
Max. FG output voltage	$V_{FGMAX}$		18	V
Max. FG output current	$I_{FGMAX}$		10	mA
VREF driving capability	$I_{VREF}$		5	mA
Junction Temperature	$T_j$		150	°C

#### Package: SOP-10pin



<sup>\*1</sup>: Reduced by 6.67mW for each increase in  $T_a$  of 1°C over 25°C When mounted on 50mm x 50mm x 1.6mm glass epoxy board

<sup>\*2</sup>: Should not exceed  $P_d$