



DC Brushless Motor Driver IC

**PT395V**

**5V Single-phase Motor Driver  
with PWM speed control**

### Applications

- Single coil DC brushless motor

### Features

- Built-in high sensitivity hall sensor
- Single phase full wave driver
- Linear Soft switching output driver
- Motor locked protection and automatic restart
- Speed controllable by DC voltage/PWM
- Full Torque up start
- FG output
- Quick start
- High Transient voltage dv/dt immune
- Back-EMF protection
- Thermal protection
- Built-in hysteresis comparator
- Built-in zener diode
- High balance and low thermal drift magnetic sensing
- Low power consumption and high driving efficiency

### Specifications

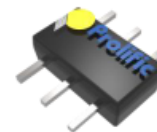
**Absolute Maximum Ratings (Ta=25°C)**

| Parameter                   | Symbol | Conditions | Rating             | Units |
|-----------------------------|--------|------------|--------------------|-------|
| Maximum supply voltage      | VDDmax | 10u sec    | 10                 | V     |
| Allowable power dissipation | Pd     | TSOT-26    | 500                | mW    |
|                             |        | DFN-8L     | 1250               | mW    |
| Operating temperature range | Ta     |            | -40~+105           | °C    |
| Storage temperature         | Ts     |            | -50~+150           | °C    |
| Max. output current         | IOMAX  | 0.5sec     | 1000 <sup>*1</sup> | mA    |
| Max. FG output voltage      | VFGMAX |            | 20                 | V     |
| Max. FG output current      | IFGMAX |            | 10                 | mA    |
| Max. input voltage (PWM)    | VINMAX |            | 10                 | V     |
| Junction temperature        | TJMAX  |            | 150                | °C    |

\*1: Should not exceed Pd

### Package:

**TSOT-6pin (2.9x1.6x0.75mm)**



**DFN-8pin (2.0x2.0x0.75mm)**

