



Hall IC

**PT3617N**

**Hi-sensitivity Hall-effect Latch**

### Applications

- DC brushless motors
- Proximity Sensor
- Tachometers
- Magnetic encoders
- Automotive systems

### Features

- 3.0V to 38V wide operation voltage
- High sensitivity
- Built-in dynamic offset cancellation
- Open drain output
- High balance and low thermal drift magnetic sensing
- Support 40V load dump test

### Specifications

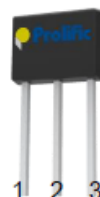
#### Absolute Maximum Ratings (Ta=25°C)

| Parameter                   | Symbol      | Conditions | Rating            | Unit |
|-----------------------------|-------------|------------|-------------------|------|
| Maximum supply voltage      | $V_{DDMAX}$ |            | 40                | V    |
| Allowable power dissipation | $P_D$       | TO-92(UA)  | 550 <sup>*1</sup> | mW   |
|                             |             | SOT-23(LH) | 500 <sup>*1</sup> | mW   |
| Operating temperature range | $T_A$       | Suffix 'A' | -40~+150          | °C   |
| Storage temperature range   | $T_S$       |            | -65~+150          | °C   |
| Relative Humidity           | $R_H$       |            | 20~90             | %    |
| Max. output current         | $I_{OMAX}$  |            | 50                | mA   |

\*1: On 50mm x 50mm x 1.6mm glass epoxy board

#### Package Type:

TO92-3L (UA)



1 : VDD  
2 : GND  
3 : OUT

SOT23-3L (LH)



1 : VDD  
2 : OUT  
3 : GND