



Hall IC

PT3617-A

Hi-sensitivity Hall-effect Latch

Applications

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

Features

- 3.8V to 38V wide operation voltage
- High sensitivity
- Reverse polarity protection (up to -60V)
- Built-in dynamic offset cancellation
- Open drain output
- High balance and low thermal drift magnetic sensing
- Support 40V load dump test
- AEC Q-100 qualified
- RoHs 2.0 qualified
- MSL Level 3

Specifications

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Conditions	Rating	Unit
Maximum supply voltage	V _{DDMAX}		40	V
Minimum supply voltage	V _{DDMIN}		-60	V
Allowable power dissipation	P _D	TO-92(UA)	550*1	mW
		SOT-23(LH)	500*1	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
Human body model	HBM	AEC Q100-002	+/- 2000	V
Charged device model	CDM	AEC Q100-011	+/- 1000	V

*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