PT3639

High Sensitivity Unipolar Switch

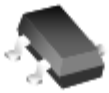
Package: TO92-3L/SOT23-3L/SOT89-3L

P/N: PT3639-XX-X

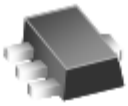
TO92-3L (UA)



SOT23-3L (LH)



SOT89-3L (LT)



The PT3639 is a high sensitive unipolar Hall switch sensor. The built-in dynamic offset cancellation and temperature compensation of pre-amplifier stage achieves accuracy magnetic sensing. The wide supply voltage range is from 3.8V to 24V and the maximum output current is 50mA.

Key Features

- 3.8V~24V operation
- High sensitivity ; -55G
- Built-in dynamic offset cancellation
- High accuracy unipolar switch
- ESD protection to 8KV
- Open drain output
- Low thermal drift magnetic sensing

Applications

- Brake Pedal Switch
- Clutch Switch
- Proximity Sensor
- Solid State Switch
- Weak Magnets Application

Specifications

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Conditions	Rating	Unit
Maximum supply voltage	V_{DDMAX}		28	V
Allowable power dissipation	P_D	TO-92(UA)	550*1	mW
		SOT-23(LH)	300*1	mW
		SOT-89(LT)	500*1	mW
Operating temperature range	T_A	Suffix'A'	-40~+150	℃
		Suffix'K'	-40~+125	℃
Storage temperature range	T_S		-55~+150	℃
Max. output current	I_{OMAX}		50	mA

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