

PST114

2024/02/28

Overview

This IC is a 40V withstand voltage 1ch voltage detection IC that is ideal for monitoring the voltage of car batteries.

The voltage detection accuracy is $\pm 2\%$ including temperature fluctuation, and the output form is Nch open drain output. The current consumption is $1.7 \mu\text{A}$ (typ.) And the operating temperature range is -40 to 105°C .

The detection delay time and release delay time can be set with external capacitors.

Application

- Voltage monitor for car battery
- Voltage monitor for AC / DC converter output voltage

Features

High withstand voltage, High accuracy detection,
Low current consumption,
Hysteresis voltage selectable (0.1V to 4.0V)

Main specifications

Absolute maximum rating [V]	Recommended operating voltage Min. [V]	Recommended operating voltage Max. [V]	Detection voltage Min. [V]	Detection voltage Max. [V]	Detection voltage accuracy [%]	Consumption current [μA]
40.0	2.70	20.00	5.0	10.0	± 2	1.70

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Release delay time	Detect delay time	Output type	Output Logic	Separated sense pin	Manual reset	Circuit structure
Adjustable	Adjustable	Open drain	Active L	Yes	No	1ch Reset
Operating Ambient Temperature Min. [deg.C]	Operating Ambient Temperature Max. [deg.C]	Hysteresis voltage Typ. [V]	Release delay time Typ. [ms]	Detect delay time Typ. [ms]		
-40	105	0.1V to 4.0V	10 (CDH=9.1nF)	10 (CDH=9.1nF)		
Additional function						
Separated Sense pin						

Package

SOT-26B

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Case Studies



No amplifier or software design required. Development of an LDO for automobiles with open load/short circuit detection function. [Power Supply IC]