

PST122A

2024/02/28

Overview

This IC is a 40V withstand voltage 2ch 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 2.7 μA (typ.), And the operating temperature range is -40 to 105°C .

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	2.70
Output type	Output Logic	Separated sense pin		Manual reset		Circuit structure
Open drain	ch1:Active L	Yes		No		2ch Reset

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open drain	ch2:Active L	yes	NO	zcn Reset
Operating Ambient Temperature Min. [deg.C]		Operating Ambient Temperature Max. [deg.C]		Hysteresis voltage Typ. [V]
-40		105		0.1~4.0
Additional function				
Separated Sense pin				

Package

SOT-26B

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Case Studies

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