PST122B

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 ± 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	3.00	20.00	5.0	10.0	±2	3.00

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

Open drain	ch2:Active H	Yes	No	2ch 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

Latest News

2023.09.26 [Engineering Information] "What is a shunt regulator?" is available now

2023.07.03 [Engineering Information] "What is RESET IC?" is available now

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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】