

IC-PST81

2024/02/28

Overview

This IC functions in a variety of CPU systems and other logic systems, to detect supply voltage and reset the system accurately when the power is turned on or interrupted. To $\pm 1.5\%$ of detection voltage accuracy of the conventional models, a maximum of $\pm 0.5\%$ of super-high precision is realized, and it is more suitable for battery detection etc. Moreover, the mounting area significantly contributes to space saving using the SSON package.

Application

- Reset circuits for microcomputers, CPUs and MPUs
- Reset circuits for logic circuits
- Battery voltage check circuits
- Back-up power supply switching circuits
- Level detection circuits

Features

High accuracy detection,
Low current consumption

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 [μ A]
12.0	0.70	10.00	0.8	6.0	± 0.5	0.25

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12.0	0.70	10.00	0.0	0.0	±0.3	0.20
Output type	Output Logic	Separated sense pin		Manual reset		Circuit structure
CMOS	Active L	No		No		1ch Reset
Operating Ambient Temperature Min. [deg.C]		Operating Ambient Temperature Max. [deg.C]			Hysteresis voltage Typ. [V]	
-40		105			VTH(Typ.)×0.05	

Package

[SC-82ABB](#)[SOT-25A](#)[SSON-4B](#)

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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]