IC-PST83

2024/02/28

Overview

In various CPU systems or other logic systems, when the time of a power supply injection and a power supply are severed for a moment, this IC detects supply voltage and applies reset to a system.
To ±1.5% of detection voltage accuracy of the conventional product, a maximum of ±0.5% of super-high precision is realized, and it is more suitable for battery detection etc.
The accuracy from elegance is conventionally raised from +100/-50% to ±10% also about delay resistance.
Moreover, the component-side product is realizing the small space using SSON-4.

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 [μA]

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12.0	0.70	10.00	0.8	6.0	±0.5	0.35

Release delay time	Output type	Output Logic	Separated sense pin	Manual reset	Circuit structure
Adjustable	CMOS	Active L	No	No	1ch Reset

Operating Ambient Temperature Min. [deg.C]	Operating Ambient Temperature Max. [deg.C]	Hysteresis voltage Typ. [V]	Delay resistance Typ. [M OHM]
-40	105	VTH(Typ.)×0.05	10

Detection pin threshold voltage Typ.
VDD×0.5

Package

SC-82ABB

SOT-25A

SSON-4B

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

All News

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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】