

## IC-PST84

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## 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  $\pm 1.5\%$  of detection voltage accuracy of the conventional product, a maximum of  $\pm 0.5\%$  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  $\pm 10\%$  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 [ $\mu$ A]

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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	Open drain	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

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

## Latest News

2023.07.03

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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]**