

## PST853A

2024/02/28

## Overview

This IC is a system reset IC that detect turn-off or the power flicker in power supply of CPU or logic systems. The IC has the delay time pin by an external capacitor and separated sense pin. The output don't occur to turn over without minimum operating limit voltage by separated sense and power supply pin. Therefore the IC is suitable for low voltage detection applications.

## 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]
6.5	0.70	6.00	0.8	5.2	$\pm 1$	0.35

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Release delay time	Output type	Output Logic	Separated sense pin	Manual reset	Circuit structure
Adjustable	CMOS	Active L	Yes	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		85		VTH(Typ.)×0.05	1
Detection pin threshold voltage Typ.			Additional function		
VDD×0.5			Separated Sense pin		

## Package

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[SOT-25A](#)[SSON-6J](#)

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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]**