

# PST894B

2024/02/28

## Overview

This IC is a reset IC for turning on/off power supply and power flicker in CPU or logic systems. This IC can change delay time by an external capacitor. Charging method of the capacitor, is current source type. Current source type can reduce temperature fluctuations in the delay time.

td typ.  $\pm 6\%$  ( $T_a = -40^\circ\text{C}$  to  $105^\circ\text{C}$ ), It is ideal for a wide set the operating temperature range.

## 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

Low current consumption,  
 Delay circuit with reduced temperature fluctuation

## 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 [ $\mu\text{A}$ ]
7.0	0.95	6.50	1.6	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	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 pin charge current Typ. [nA]		
-40	105	VTH(Typ.)×0.05	100		
Detection pin threshold voltage Typ. VDD×0.5					

## Package

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SC-82ABB

SOT-25A

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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]**