

High-precision Low Voltage Detector

Description

ACE303 is a series of high precision voltage detector with ultra low current consumption (500nA typ. at Vdd=3.0V). It can work at very low voltage, which makes it perfect for system reset.

ACE303 is composed of high precision voltage reference, comparator, output driver and resistor array. Internally preset detect voltage has a low temperature drift and requires no external trimming. One type of output, N-channel open-drain is available.

Features

• High-precision detection Voltage: ±3%

Detection Voltage: 0.9V~6.0V (in 0.1V steps)

Precise hysteresis: 4% typ.

Operating Voltage range: 0.7V~10V

Ultra-low current consumption: 500nA typ. (at VDD=3.0V)

Application

- Power monitor for portable equipment such as PDA, DSC, Mobile phone, Notebook, MP3
- CPU and Logic Circuit Reset
- Battery Checker
- Battery Back-up Circuit
- Power Failure Detector

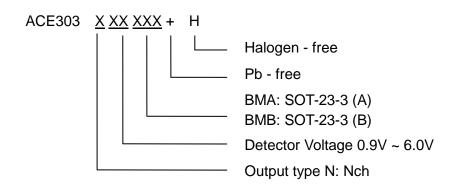
Absolute Maximum Ratings

Parameter	Max	Unit
Input Voltage	-0.3~10	V
Output Voltage	-0.3~12	V
Maximum Output current	70	mA
Maximum power dissipation	250	mW
Ambient temperature	-40~+85	$^{\circ}\mathbb{C}$
Storage temperature	-40~+150	$^{\circ}\!\mathbb{C}$



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Ordering information





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Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Electronics Co., LTD. As sued herein:

- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and shoes failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
- 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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