



ACE30200F

Manual Reset With Watchdog Timer

Description

ACE30200F series is a family of microprocessor (uP) supervisory circuit that monitors microprocessor's supply voltage and battery voltage. The ACE30200F series integrates uP reset circuit with 200ms delay, Watchdog, manual reset circuit. These devices reduce system complexity, hence improve system reliability. ACE30200F series generates a reset signal when VCC is lower than reset threshold. The reset threshold is internally fixed with 1% accuracy. The watchdog timer's timeout period is internally set at typical value of 1.6s. ACE30200F series provide both active low and active high reset signals. ACE30200F series is ideal for applications in automotive systems, computers, controllers and intelligent instruments. All devices are available in 6 pin SOT-23 package.

Features

- Reset Threshold is Internally Fixed
- Guaranteed Reset Valid at VCC=1.1V
- Reset threshold can be from 1.8V to 5.0V with 0.1V step.
- High Accuracy of Reset Threshold: $\pm 1\%$
- Low operating current: 2.7uA
- Reset pulse width: 200ms Typical
- Watchdog timer: 1.6s timeout
- Both Active-high and Active-low Reset Outputs
- Power-Supply Transient Immunity
- Available in SOT-23-6
- Operating Temperature Range: -40°C to $+ 85^{\circ}\text{C}$
- Lead-free, Rohs-compliant and Halogen-free

Application

- DSP, Computers, Controllers
- Industrial Equipment
- Intelligent instruments
- Battery-powered Equipment



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Absolute Maximum Ratings

Parameter	Symbol	Max	Unit
Terminal Voltage (With respect to GND)	V_{CC}	-0.3 to 6.5	V
	Other Inputs	-0.3 to V_{CC}	
Terminal Current	V_{CC}	20	mA
	All I/O Pins		
Thermal Resistance		220	$^{\circ}\text{C}/\text{W}$
Storage Temperature	T_S	-65 to 150	$^{\circ}\text{C}$
Maximum Junction Temperature		150	$^{\circ}\text{C}$
Operating Temperature	T_A	-40 to 85	$^{\circ}\text{C}$
Lead Temperature(Soldering, 10s)		260	$^{\circ}\text{C}$

Note:

Stresses beyond those listed under 'Absolute Maximum Ratings' may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions above those indicated in the operational sections of the specifications is not implied. Exposure to Absolute Maximum Rating Conditions for extended periods may affect device reliability.

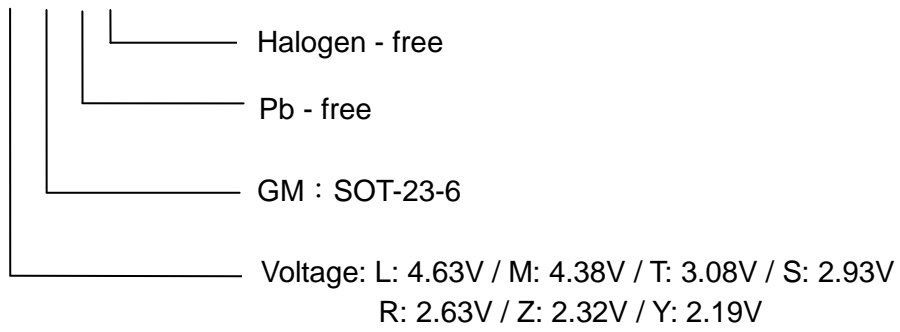


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Ordering information

ACE30200F X XX + H





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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 Technology 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 whose 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.