



ACE24AC08C

Two-wire Serial EEPROM

Description

The ACE24AC08C is 8,192 bits of serial Electrical Erasable and Programmable Read Only Memory, commonly known as EEPROM. They are organized as 1,024 words of 8 bits (1 byte) each. The devices are fabricated with proprietary advanced CMOS process for low power and low voltage applications. These devices are available in standard 8-lead DIP, 8-lead SOP, 8-lead MSOP, 8-lead TSSOP, 8-lead DFN, 8-lead UDFN and 5-lead SOT-23/TSOT-23 packages. A standard 2-wire serial interface is used to address all read and write functions. Our extended V_{CC} range (1.7V to 5.5V) devices enables wide spectrum of applications.

Features

- Low voltage and low power operations:
ACE24AC08C: $V_{CC} = 1.7V$ to $5.5V$, Industrial temperature range ($-40^{\circ}C$ to $85^{\circ}C$).
- 16 bytes page write mode.
- Partial page write operation allowed.
- Internally organized: $1,024 \times 8$ (8K).
- Standard 2-wire bi-directional serial interface.
- Schmitt trigger, filtered inputs for noise protection.
- Self-timed programming cycle (5ms maximum).
- 1 MHz (2.5-5V), 400 kHz (1.7V) Compatibility.
- Automatic erase before write operation.
- Write protect pin for hardware data protection.
- High reliability: typically, 1,000,000 cycles endurance.
- 100 years data retention.
- Standard 8-pin DIP/SOP/MSOP/TSSOP/DFN/UDFN and 5-pin SOT-23/TSOT-23 Pb-free packages.

Absolute Maximum Ratings

Industrial operating temperature	$-40^{\circ}C$ to $85^{\circ}C$
Storage temperature	$-50^{\circ}C$ to $125^{\circ}C$
Input voltage on any pin relative to ground	$-0.3V$ to $V_{CC} + 0.3V$
Maximum voltage	8V
ESD protection on all pins	$>4000V$

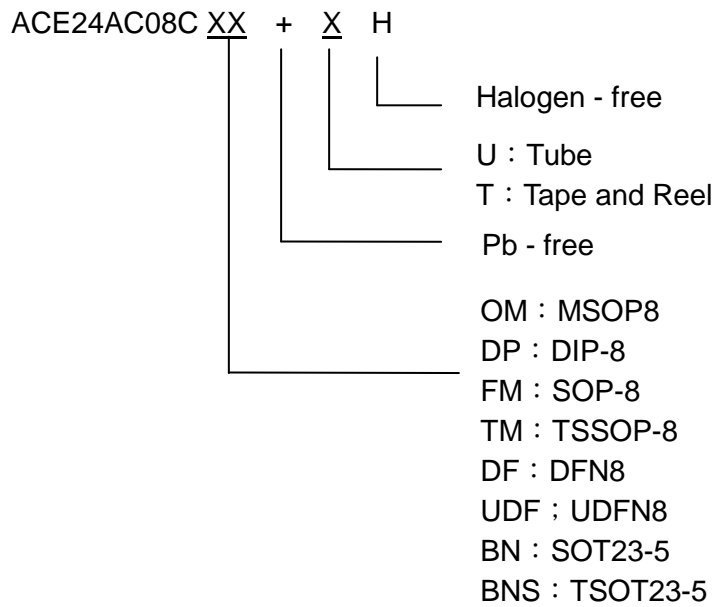
Notice: Stresses exceed those listed under "Absolute Maximum Rating" may cause permanent damage to the device. Functional operation of the device at conditions beyond those listed in the specification is not guaranteed. Prolonged exposure to extreme conditions may affect device reliability or functionality.



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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 Technology Co., LTD. As used 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.

ACE Technology Co., LTD.
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