



# ACE24C256PFB

## Two-wire Serial EEPROM

### Description

The ACE24C256PFB provides 262,144 bits of serial electrically erasable and programmable read-only memory (EEPROM), organized as 32,768 words of 8 bits each. The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operation are essential.

### Features

- Compatible with all I<sup>2</sup>C bidirectional data transfer protocol
- Memory array:
  - 256 Kbits (8 Kbytes) of EEPROM
  - Page size: 64 bytes
- Single supply voltage and high speed: 1MHz@1.8V
  - Random and sequential Read modes
- Write:
  - Byte Write within 3 ms
  - Page Write within 3 ms
  - Partial Page Writes Allowed
- Software data Protection
- Slave Address Configurable
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- High-reliability
  - Endurance: 1 Million Write Cycles
  - Data Retention: 100 Years
- Enhanced ESD/Latch-up protection
- CSP-4 Package

### Absolute Maximum Ratings

DC Supply Voltage	-0.3V to 6.5V
Input / Output Voltage	GND-0.3V to V <sub>CC</sub> +0.3V
Operating Ambient Temperature	-40°C to 85°C
Storage Temperature	-65°C to 150°C

Notice:

Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to this device. These are stress ratings only. Functional operation of this device at these or any other conditions above those indicated in the operational sections of this specification is not implied or intended. Exposure to the absolute maximum rating conditions for extended periods may affect device reliability.

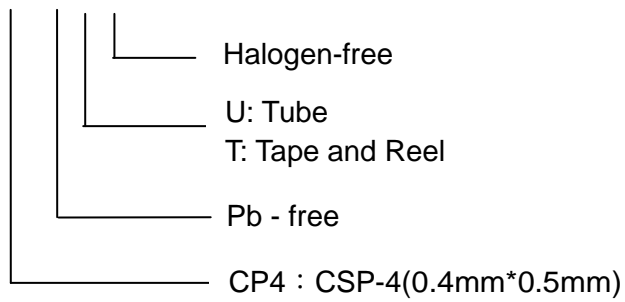


# ACE24C256PFB

Two-wire Serial EEPROM

## Ordering information

ACE24C256PFB XXX + X H





# **ACE24C256PFB**

## **Two-wire Serial EEPROM**

### 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.

ACE Technology Co., LTD.  
<http://www.ace-ele.com/>