ACE24C02F

Two-wire Serial EEPROM

Description

The ACE24C02F provides 2048 bits of serial electrically erasable and programmable read-only memory (EEPROM), organized as 256 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^2C bidirectional data transfer protocol
- Memory array:
  2K bits (256X 8) of EEPROM
  Page size: 16 bytes
- Single supply voltage and high speed:
  1 MHz
  Random and sequential Read modes
- Write:
  Byte Write within 3ms
  Page Write within 3ms
  Partial Page Writes Allowed
- Write Protect Pin for Hardware Data Protection
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- High-reliability
  Endurance: 1 million Write Cycles
  Data Retention: 100 Years
- Enhanced ESD/Latch-up protection
  HBM 6000V
- SOT-23-5 and TSOT-23-5 packages

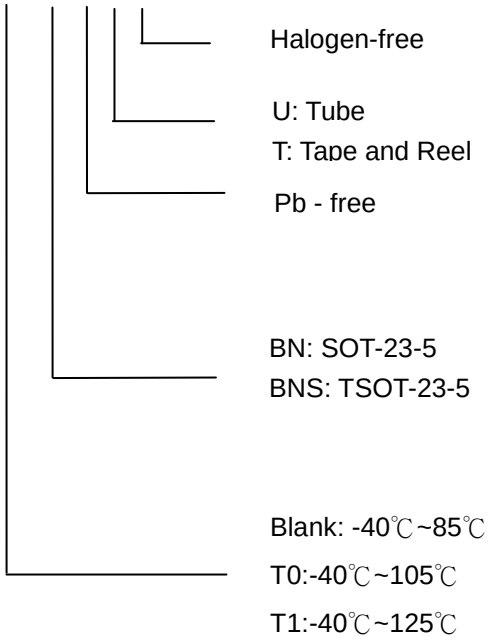
Absolute Maximum Ratings

DC Supply Voltage	-0.3V to 6.5V
Input / Output Voltage	GND-0.3V to V_{CC}+0.3V
Storage Temperature	-65℃ to 150℃
Electrostatic pulse (Human Body model)	6000V

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.

Ordering information

ACE24C02F XX XX+ X H



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 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.