

8K 2.5V ACR Serial EEPROM Product Brief

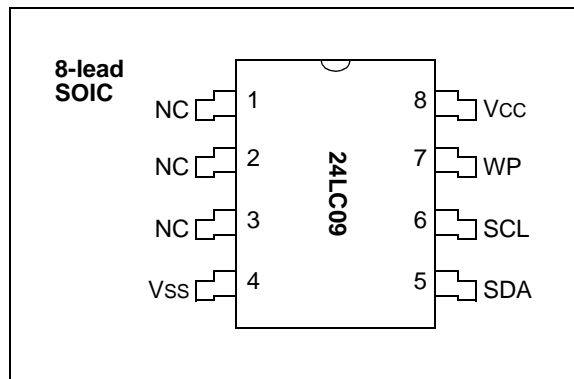
FEATURES

- Supports ACR riser card specification
 - 2-wire ACR Serial Bus interface
 - Address: 1011
- Single supply with operation down to 2.5V
- Low power CMOS technology
 - 1 mA active current typical
 - 10 μ A standby current typical at 5.5V
 - 5 μ A standby current typical at 3.0V
- Organized as four blocks of 256 bytes (4 x 256 x 8)
- Schmitt trigger, filtered inputs for noise suppression
- Output slope control to eliminate ground bounce
- 100 kHz (2.5V) and 400 kHz (5V) compatibility
- Self-timed write cycle (including auto-erase)
- Page-write buffer for up to 16 bytes
- 2 ms typical write cycle time for page-write
- Hardware write protect for entire memory
- Can be operated as a serial ROM
- Factory programming (QTP) available
- ESD protection > 4,000V
- 1,000,000 erase/write cycles
- Data retention > 200 years
- 8-lead SOIC or 8-pin DIP packages
 - Available temperature ranges:
 - Industrial (I): -40° to +85°C

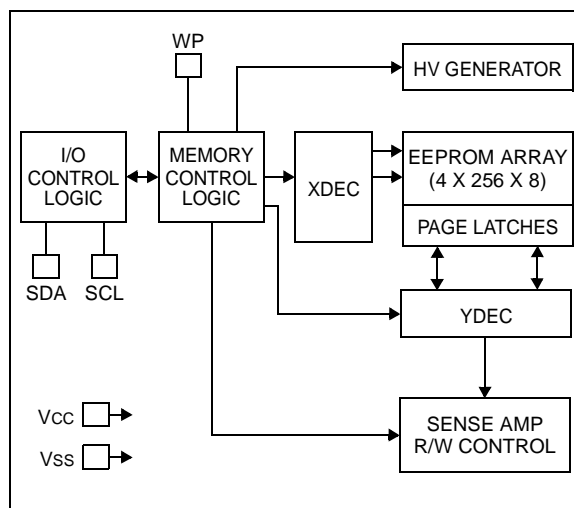
DESCRIPTION

The Microchip Technology Inc. 24LC09 is an 8 Kbit Electrically Erasable PROM designed to meet the Advanced Communication Riser Special Interest Group (ACR-SIG) riser card specification. The device is organized as four blocks of 256 x 8-bit memory that supports the 2-wire ACR Serial Bus interface with a special address: 1011. Low voltage design permits operation down to 2.5 volts with typical standby and active currents of only 5 μ A and 1 mA respectively. The 24LC09 also has a page-write capability for up to 16 bytes of data. The 24LC09 is available in the standard 8-pin DIP and the 8-lead surface mount SOIC packages.

PACKAGE TYPES



BLOCK DIAGRAM



24LC09

NOTES:

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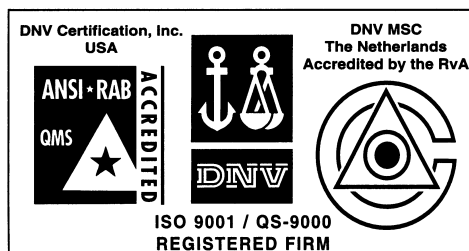
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