

Product Overview

CAV24C32: EEPROM Serial 32-Kb I²C - Automotive Grade

For complete documentation, see the data sheet.

The CAV24C32 is a EEPROM Serial 32-Kb I²C - Automotive Grade devices, internally organized as 4096 words of 8 bits each. It features a 32-byte page write buffer and supports the Standard (100 kHz) and Fast (400 kHz) I²C protocol. External address pins make it possible to address up to eight CAV24C32 devices on the same bus.

Features

- Automotive Temperature Grade 1 (-40°C to +125°C)
- 2.5 V to 5.5 V Supply Voltage Range
- This Device is Pb-Free, Halogen Free/BFR Free, and RoHS Compliant
- Supports Standard and Fast I²C Protocol
- 32-Byte Page Write Buffer
- Hardware Write Protection for Entire Memory
- CAV Prefix for Automotive and Other Applications Requiring Site and Change Control
- Schmitt Triggers and Noise Suppression Filters on I²C Bus Inputs(SCL and SDA)
- Low Power CMOS Technology
- 1,000,000 Program/Erase Cycles

For more features, see the data sheet

Benefits

- Allows the use in safety critical application.
- Single power supply from 2.5V to 5.5V. Functional over the entire Temperature range.
- Space-Efficient Packaging

Applications

- Door module
- Seat control unit
- Immobilizer unit
- Wiper module
- Fan control unit

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Type | Density | Organization | Data Transmission Standard | f _{cycle} Max (kHz) | t _{ACC} Max ns | V _{CC} Min (V) | V _{CC} Max (V) | I _{standby} Max (μA) | I _{act} Max (mA) | T Min (°C) | T Max (°C) | Package Type |
|----------------|-------------------|---------------------------------------------------------|--------|--------|---------|--------------|----------------------------|------------------------------|-------------------------|-------------------------|-------------------------|-------------------------------|---------------------------|------------|------------|--------------|
| CAV24C32C4CTR | 0.3467 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Serial | 32 kb | 4k x 8 | I2C | 400 | 900 | 2.5 | 5.5 | 5 | 2 | -40 | 125 | WLCSP-4 |
| CAV24C32C5ATR | 0.35 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Serial | 32 kb | 4k x 8 | I2C | 400 | 900 | 2.5 | 5.5 | 5 | 2 | -40 | 125 | WLCSP-5 |
| CAV24C32C5CTR | | AEC Qualified PPAP Capable Pb-free Halide free | Active | Serial | 32 kb | 4k x 8 | I2C | 400 | 900 | 2.5 | 5.5 | 5 | 2 | -40 | 125 | WLCSP-5 |
| CAV24C32WE-GT3 | 0.2861 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Serial | 32 kb | 4k x 8 | I2C | 400 | 900 | 2.5 | 5.5 | 5 | 2 | -40 | 125 | SOIC-8 |
| CAV24C32YE-GT3 | 0.3011 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Serial | 32 kb | 4k x 8 | I2C | 400 | 900 | 2.5 | 5.5 | 5 | 2 | -40 | 125 | TSSOP-8 |

For more information please contact your local sales support at www.onsemi.com.

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