Product Overview

CAT24C02: EEPROM Serial 2-Kb I^2C

For complete documentation, see the data sheet.

The CAT24C02 is a EEPROM Serial 2-Kb I^2C device organized internally as 16 pages of 16 bytes each. This device support both the Standard (100 kHz) as well as Fast (400 kHz) I^2C protocol.

Data is written by providing a starting address, then loading 1 to 16 contiguous bytes into a Page Write Buffer, and then writing all data to non-volatile memory in one internal write cycle. Data is read by providing a starting address and then shifting out data serially while automatically incrementing the internal address count.

External address pins make it possible to address up to eight CAT24C02 devices on the same bus.

Features

- Supports Standard and Fast I^2C Protocol
- 1.7 V to 5.5 V Supply Voltage Range
- 16-Byte Page Write Buffer
- Hardware Write Protection for entire memory
- Schmitt Triggers and Noise Suppression Filters on I^2C Bus Inputs (SCL and SDA)
- Low power CMOS technology
- More than 1,000,000 program/erase cycles
- 100 year data retention
- Industrial and Extended temperature range
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

  For more features, see the data sheet

Applications

- Alarm Systems
- Audio Players
- Automotive Systems
- Cable Modems
- CDRW

Part Electrical Specifications

Product	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
CAT24C02TDI-GT3A	Pb-free Halide free	Active	Serial	2 kb	256 x 8	I2C	400	900	1.7	5.5	3	1	-40	85	TSOT-23-5

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

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