



# AT24C04C/AT24C08C

## I<sup>2</sup>C-Compatible (Two-Wire) Serial EEPROM 4-Kbit (512 x 8), 8-Kbit (1,024 x 8)

### Features

- Low-Voltage Operation:
  - $V_{CC} = 1.7V$  to  $5.5V$
- Internally Organized as 512 x 8 (4K) or 1,024 x 8 (8K)
- Industrial Temperature Range:  $-40^{\circ}C$  to  $+85^{\circ}C$
- I<sup>2</sup>C-Compatible (Two-Wire) Serial Interface:
  - 100 kHz Standard mode, 1.7V to 5.5V
  - 400 kHz Fast mode, 1.7V to 5.5V
  - 1 MHz Fast Mode Plus (FM+), 2.5V to 5.5V
- Schmitt Triggers, Filtered Inputs for Noise Suppression
- Bidirectional Data Transfer Protocol
- Write-Protect Pin for Full Array Hardware Data Protection
- Ultra Low Active Current (3 mA maximum) and Standby Current (6  $\mu A$  maximum)
- 16-byte Page Write Mode:
  - Partial page writes allowed
- Random and Sequential Read Modes
- Self-Timed Write Cycle within 5 ms Maximum
- ESD Protection > 4,000V
- High Reliability:
  - Endurance: 1,000,000 write cycles
  - Data retention: 100 years
- Green Package Options (Lead-free/Halide-free/RoHS compliant)
- Die Sale Options: Wafer Form and Tape and Reel Available

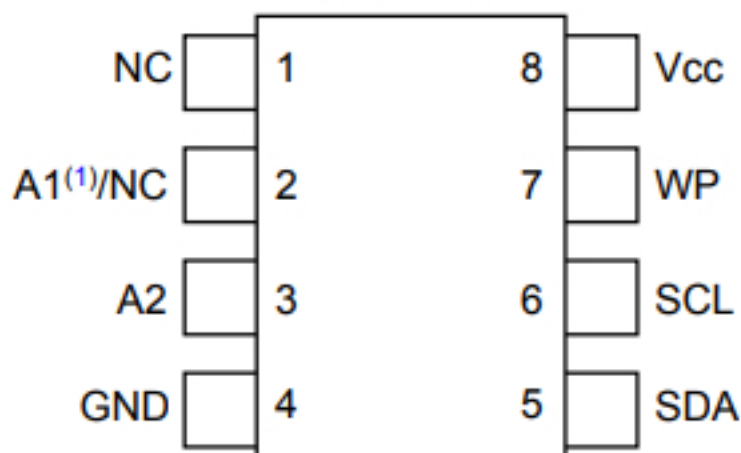
勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### Packages

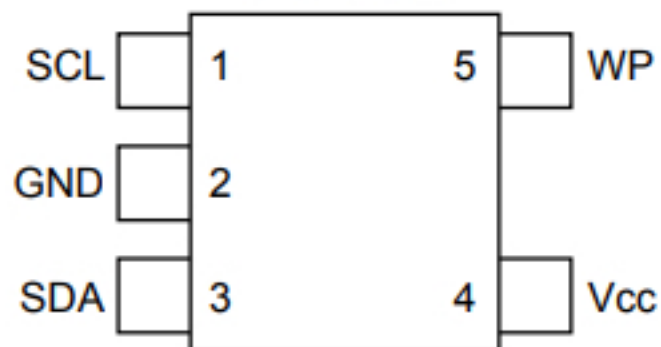
- 8-Lead PDIP, 8-Lead SOIC, 5-Lead SOT23, 8-Lead TSSOP, 8-Pad UDFN and 8-Ball VFBGA

**1. Package Types (not to scale)**

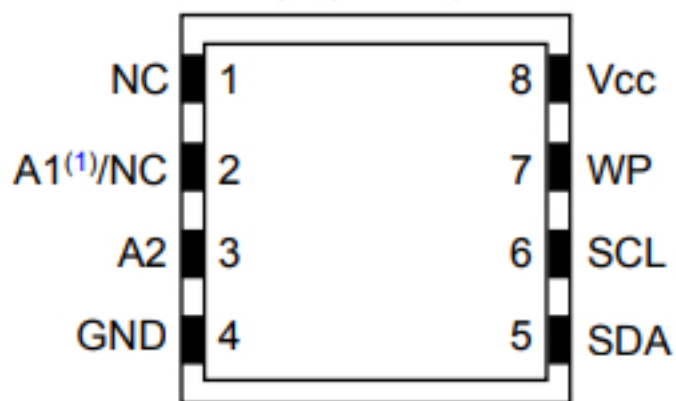
**8-lead PDIP/SOIC/TSSOP**  
 (Top View)



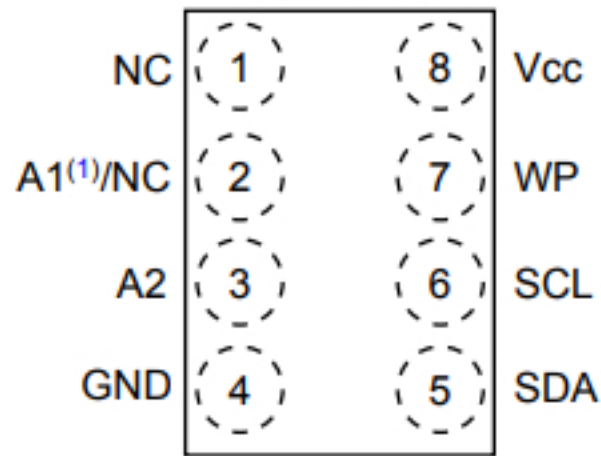
**5-lead SOT23<sup>(2)</sup>**  
 (Top View)



**8-pad UDFN**  
 (Top View)



**8-ball VFBGA**  
 (Top View)



**Note:**

1. This pin is device address input (A1) pin on the AT24C04C and is a NC or no connect on the AT24C08C. Refer to [Pin Descriptions](#) for additional details.
2. Refer to [Device Addressing](#) for details about addressing the SOT23 version of the device.

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)