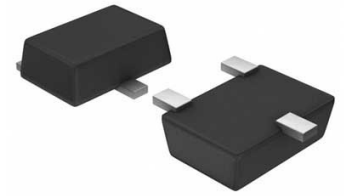


## EEPROM Serial-Microwire 2K-bit 128 x 16 3.3V/5V Automotive 6-Pin SOT-23 T/R



Images are for reference only

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** SOT-23

**Product Type:** Memory

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

The Microchip 93LC56B device is a 2Kb Microwire (3-wire) Serial EEPROM with dedicated 16-bit memory organization and a voltage operation range of 2.5 - 5.5V. Also available are the 93LC56A for dedicated 8-bit memory organization and the 93LC56C for hardware selectable word size using the ORG pin. The 93LC56B is optimized for use in consumer, industrial, and automotive applications where reliable and dependable nonvolatile memory storage is essential. The device is available in a variety of Pb-free packages including SOT-23, PDIP, SOIC, MSOP, DFN and TSSOP.

### Key Features

Industry Standard Microwire Serial I/O

Up to 2 MHz clock compatibility

128 x 16-Bit Organization

Automatic Erase All (ERAL) Before Write All (WRAL)

Self-Timed Erase and Write Cycles (6 ms max.)

Read current 100 uA (Typ), 500 uA (Max)

Write current 500 uA (Typ), 2 mA (Max)

Standby current 1 uA (Max at -40 to 85°C)

Software Write-Protection

More than 1 million erase/write cycles

Data retention > 200 years

Grade 1 Temperature Range: -40°C to 125°C

Qualified for Automotive Applications

Factory Programming Available

Available in SOT-23-6, PDIP-8, SOIC-8, MSOP-8, 2x3 DFN-8 and TSSOP-8

## Recommended For You

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### AT93C46E-PU

Microchip Technology, Inc  
DIP8

### AT93C46D-PU

Microchip Technology, Inc  
DIP8

### AT93C66B-XHM-T

Microchip Technology, Inc  
TSSOP8

### AT93C56B-SSHM-T

Microchip Technology, Inc  
SOP8

### 93LC46B-I/SN

Microchip Technology, Inc  
SOP8

### 93LC66C-I/SN

Microchip Technology, Inc  
SOIC-8

### 93LC66A-I/SN

Microchip Technology, Inc  
SOP8

### AT93C46DN-SH-T

Microchip Technology, Inc  
SOP8

### 93AA56AT-I/OT

Microchip Technology, Inc  
SOT23-6

### 93LC86CT-I/SN

Microchip Technology, Inc  
SOP8

### 93LC46-I/SN

Microchip Technology, Inc  
SMD

### 93LC46CT-I/ST

Microchip Technology, Inc  
TSSOP-8

### AT93C86A-10SU-1.8

Microchip Technology, Inc  
SOP-8

### 93LC66C-I/ST

Microchip Technology, Inc  
TSSOP8

### 93LC66B/SN

Microchip Technology, Inc  
SOP-8