

NOR Flash Serial-SPI 3.3V 4M-bit 512K x 8 Automotive 8-Pin SOIC N Tube



Images are for reference only

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SOP8

Product Type: Memory

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The 25 series Serial Flash family features a four-wire, SPI-compatible interface that allows for a low pin-count package which occupies less board space and ultimately lowers total system costs. The SST25PF040C devices are enhanced with extended operating voltage of 2.3-3.6V. SST25PF040C SPI serial flash memories are manufactured with proprietary, high-performance CMOS SuperFlash technology. The split-gate cell design and thick-oxide tunneling injector attain better reliability and manufacturability compared with alternate approaches.

Key Features

Single Voltage Read and Write Operations- 2.3–3.6V

Serial Interface Architecture- SPI Compatible: Mode 0 and Mode 3

Dual Input/Output I/O Support

High Speed Clock Frequency up to 40 MHz

Superior Reliability:

Endurance: 100,000 Cycles (typical)

Greater than 20 years Data Retention

Low Power Consumption:

Active Read Current: 5 mA (typical)

Standby Current: 5 μ A (typical)

Power-down Mode: 3 μ A (typical)

Flexible Erase Capability

Uniform 4 KByte sectors

Uniform 64 KByte overlay blocks

Fast Erase and Byte-Program:

Sector-Erase Time: 40 ms (typical)

Byte-Program Time: 4 ms/256 bytes (typical)

Page Program Mode - 256 Bytes/Page

End-of-Write Detection- Software polling the BUSY bit in Status Register

Hold Pin (HOLD#)- Suspends a serial sequence to the memory without deselecting the device

Write Protection (WP#)- Enables/Disables the Lock-Down function of the status register

Software Write Protection- Write protection through Block-Protection bits in status register

Temperature Range- Industrial: -40°C to +85°C

Packages Available-

8-lead SOIC (150 mils)

8-contact WDFN (6mm x 5mm)

8-contact USON (2mm x 3mm)

All devices are RoHS compliant

Recommended For You

SST39VF1602-70-4I-EKE

Microchip Technology, Inc
TSOP48

SST25VF080B-50-4C-S2AF

Microchip Technology, Inc
SOP8

AT24C64D-SSHM-T

Microchip Technology, Inc
SOP8

AT25256B-SSHL-T

Microchip Technology, Inc
SOP8

AT24C08C-SSHM-T

Microchip Technology, Inc
SOP8

AT24C256C-SSHL-T

Microchip Technology, Inc
SOP8

AT24C32D-SSHM-T

Microchip Technology, Inc
SOP8

AT24C02C-SSHM-T

Microchip Technology, Inc
SOP8

AT24C16C-SSHM-B

Microchip Technology, Inc
SOP-8

AT93C56B-SSHM-T

Microchip Technology, Inc
SOP8

AT25040B-SSHL-B

Microchip Technology, Inc
SOP-8

AT25128B-SSPDGV-T

Microchip Technology, Inc
SOP8

SST39SF040-70-4C-WHE

Microchip Technology, Inc
TSOP

SST39SF010A-70-4C-NHE

Microchip Technology, Inc
PLCC32

SST26VF016-80-5I-S2AE

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