NOR Flash Serial-SPI 1.8V 8M-bit 1M x 8 11ns 8-Pin SOIC N Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP
Product Type:	Memory
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

SST25WF080B is a member of the Serial Flash 25 Series family and feature 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. SPI serial flash memory is 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.

This Serial Flash significantly improve performance and reliability, while lowering power consumption. The device writes (Program or Erase) with a single power supply of 1.65-1.95V. The total energy consumed is a function of the applied voltage, current, and time of application. Since for any given voltage range, the SuperFlash technology uses less current to program and has a shorter erase time, the total energy consumed during any Erase or Program operation is less than alternative flash memory technologies.

Key Features

Single Voltage Read and Write Operations - 1.65-1.95V

Serial Peripheral Interface (SPI) Architecture Mode 0 and Mode 3

High Speed Clock Frequency up to 40MHz

Dual Input/Output Support

Superior Reliability Endurance of 100,000 Cycles with greater than 20 years Data Retention

Ultra-Low Power Consumption: - Active Read Current: 4 mA (typical)   - Standby Current: 10 µA (typical)   - Power-down Mode Standby Current: 4 µA (typical)

Flexible Erase Capability   - Uniform 4 KByte sectors   - Uniform 64 KByte overlay blocks

Page Program Mode up to 256 Bytes/Page

Fast Erase and Page-Program: - Chip-Erase Time: 500 ms (typical)   - Sector-Erase Time: 40 ms (typical)   - Block-Erase Time: 80 ms (typical)   - Page-Program Time: 0.8 ms/ 256 bytes (typical)

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

Hold Pin (HOLD#) to Suspend a serial sequence without deselecting the device

Write Protection Pin (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, Extended -40°C to +125°C

Automotive AEC-Q100 Qualified Grade 1 and 3

Packages Available: 8-lead SOIC (150 mils), 8-contact USON (2mm x 3mm), WLCSP

All devices are RoHS compliant

Recommended For You

SST39VF1602-70-4I-EKE	**SST25VF080B-50-4C-S2AF**	**AT24C64D-SSHM-T**
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
TSOP48	SOP8	SOP8
AT25256B-SSHL-T	**AT24C08C-SSHM-T**	**AT24C256C-SSHL-T**
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
SOP8	SOP8	SOP8
AT24C32D-SSHM-T	**AT24C02C-SSHM-T**	**AT24C16C-SSHM-B**
Microchip Technology, Inc	Microchip Technology, Inc	Microchip Technology, Inc
SOP8	SOP8	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

Microchip Technology, Inc

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