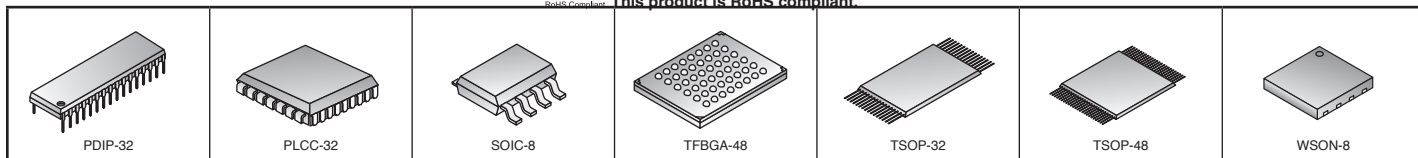


# MICROCHIP Serial and Parallel Flash Memory



This product is RoHS compliant.



Memory  
Microchip

## 25 SERIES SERIAL FLASH

◆ Surface Mount Device

SPI Serial Flash is small, low-power flash memory that features Serial Peripheral Interface (SPI) and pin-for-pin compatibility with industry-standard SPI EEPROM devices. Its small footprint reduces ASIC controller pin-count and packaging costs, saves board space, and keeps system costs down. Lower power consumption than standard flash and fewer wires than parallel flash; SPI Serial Flash is the ideal cost-efficient, data transfer solution. Microchip's CMOS SuperFlash® technology boosts data retention and endurance, reduces erase time and power consumption, making Microchip serial flash ideal for portable designs.

**Features:**

- Endurance: 100,000 cycles (typical)
- Greater than 100 years data retention
- Fast Sector-Erase or Block-Erase time: 18ms (typical)
- Byte program time: 7µA (typical)
- Active Read Current: 10mA (typical)
- Standby Current: 8µA (typical)

**Applications:**

- HD DVD
- HDTV
- Bluetooth
- MP3 players
- DSL and cable modems
- Optical disk drives
- Hard disk drives
- PC BIOS
- Printers
- Zigbee
- Wireless LAN
- LCD monitors
- Digital radios
- Set-top boxes



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For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Package	Density	Organization	Frequency (MHz)	Byte Program Time (µs) (Typ)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	25	100
◆ 804-25VF512A3CSAE	SST25VF512A-33-4C-SAE	SOIC-8	512K	64Kx8	33	14	2.7 to 3.6	0 to +70	.64	.48	.45
◆ 804-25VF010A3CSAE	SST25VF010A-33-4C-SAE	SOIC-8	1M	128Kx8	33	14	2.7 to 3.6	0 to +70	.75	.56	.52
◆ 804-25VF010A3ISAE	SST25VF010A-33-4I-SAE	SOIC-8	1M	128Kx8	33	14	2.7 to 3.6	-40 to +85	.70	.56	.52
◆ 804-25VF020A3CSAE	SST25VF020A-20-4C-SAE	SOIC-8	2M	256Kx8	20	14	2.7 to 3.6	0 to +70	.88	.68	.64
◆ 804-25VF020A3ISAE	SST25VF020A-20-4I-SAE	SOIC-8	2M	256Kx8	20	14	2.7 to 3.6	-40 to +85	.92	.68	.64
◆ 804-25LF020A3CSAE	SST25LF020A-33-4C-SAE	SOIC-8	2M	256Kx8	33	14	3.0 to 3.6	0 to +70	.80	.68	.64
◆ 804-25VF040B5IQAF	SST25VF040B-50-4I-QAF	WSON-8	4M	512Kx8	50	14	2.7 to 3.6	-40 to +85	1.47	1.22	1.15
◆ 804-25VF040B5CS2AF	SST25VF040B-50-4C-S2AF	SOIC-8	4M	512Kx8	50	7	2.7 to 3.6	0 to +70	1.02	.78	.71
◆ 804-25VF040B8IQAE	SST25VF040B-80-4I-QAE	WSON-8	4M	512Kx8	80	7	2.7 to 3.6	-40 to +85	1.34	1.00	.93
◆ 804-25VF080B8CS2AE	SST25VF080B-80-4C-S2AE	SOIC-8	8M	1Mx8	80	7	2.7 to 3.6	0 to +70	1.38	1.02	.95
◆ 804-25VF080B5CQAF	SST25VF080B-50-4C-QAF	WSON-8	8M	1Mx8	50	7	2.7 to 3.6	0 to +70	1.49	1.24	1.17
◆ 804-25WF0807ISAF	SST25WF080-75-4I-SAF	SOIC-8	8M	1Mx8	75	14	1.65 to 1.95	-40 to +85	2.16	1.63	1.52
◆ 804-25VF032B8IS2AF	SST25VF032B-80-4I-S2AF	SOIC-8	32M	4Mx8	80	7	2.7 to 3.6	-40 to +85	2.10	1.82	1.69
◆ 804-25VF032B8IQAE	SST25VF032B-80-4I-QAE	WSON-8	32M	4Mx8	80	7	2.7 to 3.6	-40 to +85	2.30	1.99	1.85

<b>Serial SuperFlash® Kit</b>											
579-AC243005-1	AC243005-1			Serial SuperFlash® Kit 1, contains 3 Serial Flash PICTail™ Plus Daughter Boards							30.00

## 26 SERIES SERIAL FLASH

◆ Surface Mount Device

Microchip's 26 Series boosts performance while maintaining the compact form factor of standard serial devices. Utilizing Serial Quad Interface (SQI) and operating at frequencies reaching 80 MHz, the 26 Series is a perfect choice for Bluetooth headsets, optical disk drives and GPS applications. The 26 Series SQI flash memories are manufactured with Microchip's proprietary, high performance CMOS SuperFlash® Technology, significantly improving performance and reliability while lowering power consumption. For cutting edge designs requiring high bandwidth and compact layout, the 26 Series is an ideal solution.

**Features:**

- High speed clock frequency: 80MHz Max
- 4-bit multiplexed I/O's with SPI-like serial command structure
- SPI protocol support for Read, High Speed Read and JEDEC ID Read
- Burst Read: 8, 16, 32, 64 byte burst with wrap around
- Index Jump: Reduce number of input clocks for faster data access

- Write Suspend and Resume: Suspend Program or Erase operation
- Individual Block Locking: 64KB blocks with 8x8KB parameter blocks
- Write protection through Block-Protection bits in status register
- One Time Programmable (OTP) 256-bit Secure ID

**Applications:**

- Bluetooth Headsets
- Digital Video Recorder
- Optical disk drives
- Blu-Ray
- GPS
- Hard Disk Drives
- Portable Media Devices



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Package	Density	Organization	Frequency (MHz)	Chip-Erase Time (ms) (Typ)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	25	100
◆ 804-26VF0168IS2AE	SST26VF016-80-5I-S2AE	SOIC-8	16M	2Mx8	80	35	2.7 to 3.6	-40 to +85	2.18	1.62	1.51
◆ 804-26VF0168IQAE	SST26VF016-80-5I-QAE	WSON-8	16M	2Mx8	80	35	2.7 to 3.6	-40 to +85	2.42	1.80	1.67

<b>Serial SuperFlash® Kit</b>											
579-AC243005-1	AC243005-1			Serial SuperFlash® Kit 1, contains 3 Serial Flash PICTail™ Plus Daughter Boards							30.00

## 39 SERIES MPF (MULTI-PURPOSE FLASH) PARALLEL FLASH

◆ Surface Mount Device

The 39 Series MPF (Multi-Purpose Flash) are manufactured with Microchip's 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. To protect against inadvertent write, they have on-chip hardware and Software Data Protection schemes. Designed, manufactured, and tested for a wide spectrum of applications, these devices are offered with a guaranteed typical endurance of 10,000 cycles. Data retention is rated at greater than 100 years. They are suited for applications that require convenient and economical updating of program, configuration, or data memory. For all system applications, they significantly improve performance and reliability, while lowering power consumption. They inherently use less energy during erase and program than alternative flash technologies. 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 technologies.

**Features:**

- 50% smaller than competition's 6mm x 8mm BGA packages
- Industry's smallest 1.8V packages for 8M-bit products
- Thinnest standard flash package in the industry
- Best total-cost solution for price sensitive, fast to market applications
- JEDEC approved packages

- For applications requiring high performance features such as set-top boxes, PDAs, digital cameras and networking equipment



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Package	Density	Organization	Access Time (ns)	Chip Rewrite Time (Sec) (Typ)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	25	100
◆ 804-39SF010A7CNHE	SST39SF010A-70-4C-NHE	PLCC-32	1M	128Kx8	70	2.0	4.5 to 5.5	0 to +70	1.44	1.07	1.00
◆ 804-39SF010A7CWHE	SST39SF010A-70-4C-WHE	TSOP-32	1M	128Kx8	70	2.0	4.5 to 5.5	0 to +70	1.63	1.21	1.13
◆ 804-39SF010A7INHE	SST39SF010A-70-4I-NHE	PLCC-32	1M	128Kx8	70	2.0	4.5 to 5.5	-40 to +85	1.38	1.07	1.00
◆ 804-39SF010A7CPHE	SST39SF010A-70-4C-PHE	PDIP-32	1M	128Kx8	70	2.0	4.5 to 5.5	0 to +70	1.95	1.39	1.30
◆ 804-39VF0107CNHE	SST39VF010-70-4C-NHE	PLCC-32	1M	128Kx8	70	2.0	2.7 to 3.6	0 to +70	1.15	.86	.80
◆ 804-39VF0107INHE	SST39VF010-70-4I-NHE	PLCC-32	1M	128Kx8	70	2.0	2.7 to 3.6	-40 to +85	1.38	1.03	.96
◆ 804-39VF0107IWHE	SST39VF010-70-4I-WHE	TSOP-32	1M	128Kx8	70	2.0	2.7 to 3.6	-40 to +85	1.57	1.17	1.09
◆ 804-39LF200A55CEKE	SST39LF200A-55-4C-EKE	TSOP-48	2M	128Kx16	55	2.0	3.0 to 3.6	0 to +70	2.08	1.55	1.44
◆ 804-39VF200A7CEKE	SST39VF200A-70-4C-EKE	TSOP-48	2M	128Kx16	70	2.0	2.7 to 3.6	0 to +70	1.74	1.29	1.20
◆ 804-39VF200A7CB3KE	SST39VF200A-70-4C-B3KE	TFBGA-48	2M	128Kx16	70	2.0	2.7 to 3.6	0 to +70	1.89	1.40	1.31
◆ 804-39VF200A7IEKE	SST39VF200A-70-4I-EKE	TSOP-48	2M	128Kx16	70	2.0	2.7 to 3.6	-40 to +85	2.12	1.58	1.48
◆ 804-39SF020A7CNHE	SST39SF020A-70-4C-NHE	PLCC-32	2M	256Kx8	70	4.0	4.5 to 5.5	0 to +70	2.14	1.60	1.49
◆ 804-39SF020A7CWHE	SST39SF020A-70-4C-WHE	TSOP-32	2M	256Kx8	70	4.0	4.5 to 5.5	0 to +70	2.34	1.74	1.62
◆ 804-39SF020A7CPHE	SST39SF020A-70-4C-PHE	PDIP-32	2M	256Kx8	70	4.0	4.5 to 5.5	0 to +70	2.58	1.92	1.79
◆ 804-39SF020A7INHE	SST39SF020A-70-4I-NHE	TSOP-32	2M	256Kx8	70	4.0	4.5 to 5.5	-40 to +85	2.14	1.60	1.49
◆ 804-39VF0207CNHE	SST39VF020-70-4C-NHE	PLCC-32	2M	256Kx8	70	4.0	2.7 to 3.6	0 to +70	1.63	1.21	1.13
◆ 804-39VF0207CWHE	SST39VF020-70-4C-WHE	TSOP-32	2M	256Kx8	70	4.0	2.7 to 3.6	0 to +70	1.51	1.12	1.05
◆ 804-39VF0207INHE	SST39VF020-70-4I-NHE	PLCC-32	2M	256Kx8	70	4.0	2.7 to 3.6	-40 to +85	1.63	1.21	1.13
◆ 804-39VF0207IWHE	SST39VF020-70-4I-WHE	TSOP-32	2M	256Kx8	70	4.0	2.7 to 3.6	-40 to +85	1.51	1.12	1.05
◆ 804-39LF400A55CEKE	SST39LF400A-55-4C-EKE	TSOP-48	4M	256Kx16	55	4.0	3.0 to 3.6	0 to +70	2.26	1.83	1.70