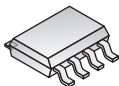


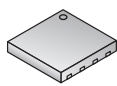
SST Serial and Parallel Flash Memory



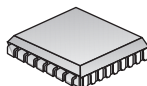
RoHS Compliant This product is RoHS compliant.



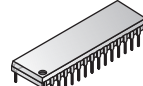
SOIC-8



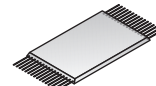
WSN-8



PLCC-32



PDIP-32



TSOP-32

Memory

SST

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. SST's CMOS SuperFlash® technology boosts data retention and endurance, reduces erase time and power consumption, making SST 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



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Frequency (MHz)	Byte Program Time (µS) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-25VF512A3CQAE	SST25VF512A-33-4C-QAE	WSN-8	512K	64K x 8	33	14	2.7 to 3.6	0 to 70	.75	.684	.63
◆ 804-25VF512A3CSAE	SST25VF512A-33-4C-SAE	SOIC-8	512K	64K x 8	33	14	2.7 to 3.6	0 to 70	.54	.494	.455
◆ 804-25VF010A3CQAE	SST25VF010A-33-4C-QAE	WSN-8	1M	128K x 8	33	14	2.7 to 3.6	0 to 70	.81	.741	.682
◆ 804-25VF010A3CSAE	SST25VF010A-33-4C-SAE	SOIC-8	1M	128K x 8	33	14	2.7 to 3.6	0 to 70	.60	.551	.507
◆ 804-25VF010A3ISAE	SST25VF010A-33-4I-SAE	SOIC-8	1M	128K x 8	33	14	2.7 to 3.6	-40 to +85	.71	.646	.595
◆ 804-25VF0202CSAE	SST25VF020-20-4C-SAE	SOIC-8	2M	256K x 8	20	14	2.7 to 3.6	0 to 70	.92	.836	.77
◆ 804-25VF0202ISAE	SST25VF020-20-4I-SAE	SOIC-8	2M	256K x 8	20	14	2.7 to 3.6	-40 to +85	1.11	1.00	.923
◆ 804-25LF020A3CSAE	SST25LF020A-33-4C-SAE	SOIC-8	2M	256K x 8	33	14	3.0 to 3.6	0 to 70	.84	.76	.70
◆ 804-25VF040B5CQAF	SST25VF040B-50-4C-QAF	WSN-8	4M	512K x 8	50	14	2.7 to 3.6	0 to 70	1.21	1.10	1.01
◆ 804-25VF040B5IQAF	SST25VF040B-50-4I-QAF	WSN-8	4M	512K x 8	50	14	2.7 to 3.6	-40 to +85	1.47	1.33	1.22
◆ 804-25VF040B5CS2AF	SST25VF040B-50-4C-S2AF	SOIC-8	4M	512K x 8	50	7	2.7 to 3.6	0 to 70	1.00	.912	.84
◆ 804-25VF040B5IS2AF	SST25VF040B-50-4I-S2AF	SOIC-8	4M	512K x 8	50	7	2.7 to 3.6	-40 to +85	1.21	1.10	1.01
◆ 804-25VF080B5IS2AF	SST25VF080B-50-4I-S2AF	SOIC-8	8M	1M x 8	50	7	2.7 to 3.6	-40 to +85	1.53	1.38	1.27
◆ 804-25VF080B5CS2AF	SST25VF080B-50-4C-S2AF	SOIC-8	8M	1M x 8	50	7	2.7 to 3.6	0 to 70	1.28	1.15	1.06
◆ 804-25VF080B5CQAF	SST25VF080B-50-4C-QAF	WSN-8	8M	1M x 8	50	7	2.7 to 3.6	0 to 70	1.49	1.34	1.24
◆ 804-25VF0807ISAF	SST25WF080-75-4I-SAF	SOIC-8	8M	1M x 8	75	14	1.65 to 1.95	-40 to +85	2.54	2.30	2.12
◆ 804-25VF016B504CS2AF	SST25VF016B-50-4C-S2AF	SOIC-8	16M	2M x 8	50	7	2.7 to 3.6	0 to 70	1.42	1.29	1.19
◆ 804-25VF016B5IQAF	SST25VF016B-50-4I-QAF	WSN-8	16M	2M x 8	50	7	2.7 to 3.6	-40 to +85	1.97	1.78	1.64
◆ 804-25VF016B504CQAF	SST25VF016B-50-4C-QAF	WSN-8	16M	2M x 8	50	7	2.7 to 3.6	0 to 70	1.63	1.48	1.36
◆ 804-25VF032B8IS2AF	SST25VF032B-80-4I-S2AF	SOIC-8	32M	4M x 8	80	7	2.7 to 3.6	-40 to +85	2.56	2.32	2.14
◆ 804-25VF032B8IQAE	SST25VF032B-80-4I-QAE	WSN-8	32M	4M x 8	80	7	2.7 to 3.6	-40 to +85	2.77	2.51	2.31

26 SERIES SERIAL FLASH

◆ Surface Mount Device

SST 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, SST 26 Series is a perfect choice for Bluetooth headsets, optical disk drives and GPS applications. SST 26 Series SQI flash memories are manufactured with SST'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, SST 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
- Optical disk drives
- GPS
- Portable Media Devices
- Digital Video Recorder
- Blu-Ray
- Hard Disk Drives



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Frequency (MHz)	Chip-Erase Time (ms) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-26VF0168IS2AE	SST26VF016-80-5I-S2AE	SOIC-8	16M	2M x 8	80	35	2.7 to 3.6	-40 to +85	1.78	1.61	1.48
◆ 804-26VF0168IQAE	SST26VF016-80-5I-QAE	WSN-8	16M	2M x 8	80	35	2.7 to 3.6	-40 to +85	1.99	1.80	1.66

27 & 37 SERIES MTP (MANY-TIME PROGRAMMABLE) PARALLEL FLASH

◆ Surface Mount Device

The 27 & 37 Series of Many-Time Programmable (MTP) low cost flash, manufactured with SST's proprietary, high performance SuperFlash® technology. The split-gate cell design and thick oxide tunneling injector attain better reliability and manufacturability compared with alternate approaches. These MTP devices can be electrically erased and programmed at least 1000 times using an external programmer with a 12V power supply. They have to be erased prior to programming. These devices conform to JEDEC standard pinouts for byte-wide memories. Designed, manufactured, and tested for a wide spectrum of applications, these devices are offered with an endurance of at least 1000 cycles. Data retention is rated at greater than 100 years. They are suited for applications that require infrequent writes and low power nonvolatile storage. These devices will provide flexibility, efficiency, and performance while matching the low cost in nonvolatile applications that currently use UV-EPROMs, OTPs, and mask ROMs.

Features (SST27 Series):

- 5.0V Read, 12.0V Program and Erase
- Same package and pin assignments as EPROM/OTP (except SST27SF512 follows flash memory pin assignments for 32-lead TSOP packages)
- For use in cordless phones, VCD players, printers and fax machines where code is frozen and in-system programming is not required

Features (SST37 Series):

- 2.7-3.6V Read, 12.0V Program and Erase
- Same package and pin assignments as standard flash
- For use in cordless phones, VCD players, printers and fax machines where code is frozen and in-system programming is not required



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Access Time (ns)	Chip Rewrite Time (Sec) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-27SF0107CNHE	SST27SF010-70-3C-NHE	PLCC-32	1M	128K x 8	70	2.8	4.5 to 5.5	0 to 70	1.05	.95	.875
◆ 804-27SF0107CPHE	SST27SF010-70-3C-PHE	PDIP-32	1M	128K x 8	70	2.8	4.5 to 5.5	0 to 70	1.32	1.19	1.10
◆ 804-37VF0107CNHE	SST37VF010-70-3C-NHE	PLCC-32	1M	128K x 8	70	1.2	2.7 to 3.6	0 to 70	.98	.893	.822
◆ 804-27SF0207CNHE	SST27SF020-70-3C-NHE	PLCC-32	2M	256K x 8	70	5.6	4.5 to 5.5	0 to 70	1.09	.988	.91
◆ 804-27SF0207CPHE	SST27SF020-70-3CPHE	PDIP-32	2M	256K x 8	70	5.6	4.5 to 5.5	0 to 70	1.40	1.27	1.17
◆ 804-37VF0207CNHE	SST37VF020-70-3C-NHE	PLCC-32	2M	256K x 8	70	2.4	2.7 to 3.6	0 to 70	1.15	1.04	.962

29 SERIES SSF (SMALL-SECTOR FLASH) PARALLEL FLASH

◆ Surface Mount Device

The 29 Series SSF (Small-Sector Flash) devices 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. They also improve flexibility while lowering the cost for program, data, and configuration storage applications.

Features (SST29EE Series):

- 128 byte Sector-Erase
- Sector-by-sector Erase operations
- Byte-by-byte Program operations

Features (SST29SF/VF Series):

- 128 byte size
- Page-by-page Write operations
- Page-Write operation includes an internal Erase transparent to the external system



RoHS Compliant

For quantities 500 and up, call for quote.

MOUSER STOCK NO.	SST Part No.	Package	Density	Organization	Access Time (ns)	Chip Rewrite Time (Sec) (Typ.)	Supply Voltage (V)	Operating Temperature (°C)	Price Each		
									1	50	100
◆ 804-29EE5127CNHE	SST29EE512-70-4C-NHE	PLCC-32	512K	64K x 8	70	2.5	4.5 to 5.5	0 to 70	1.38	1.25	1.15
◆ 804-29EE5127CEHE	SST29EE512-70-4C-EHE	TSOP-32	512K	64K x 8	70	2.5	4.5 to 5.5	0 to 70	1.59	1.44	1.33
◆ 804-29EE5127INHE	SST29EE512-70-4I-NHE	PLCC-32	512K	64K x 8	70	2.5	4.5 to 5.5	-40 to +85	1.65	1.50	1.38
◆ 804-29EE0107CNHE	SST29EE010-70-4C-NHE	PLCC-32	1M	128K x 8	70	5.0	4.5 to 5.5	0 to 70	1.82	1.65	1.52
◆ 804-29EE0107CWHE	SST29EE010-70-4C-WHE	TSOP-32	1M	128K x 8	70	5.0	4.5 to 5.5	0 to 70	1.89	1.71	1.57
◆ 804-29EE0107CEHE	SST29EE010-70-4C-EHE	TSOP-32	1M	128K x 8	70	5.0	4.5 to 5.5	0 to 70	2.03	1.84	1.69
◆ 804-29EE0107CPHE	SST29EE010-70-4C-PHE	PDIP-32	1M	128K x 8	70	5.0	4.5 to 5.5	0 to 70	2.03	1.84	1.69
◆ 804-29SF0205CNHE	SST29SF020-55-4C-NHE	PLCC-32	2M	256K x 8	55	4.0	4.5 to 5.5	0 to 70	1.55	1.40	1.29