Serial Quad I/O™ (SQI™) Flash Memory

26 Series

Product Brief

October 2010

Product Description

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.

Key Features

High Speed Clock Frequency
- 80 MHz Max

Serial Interface Architecture
- 14-bit multiplexed I/Os with SPI-like serial command structure (mode 3 and mode 1)
- SPI protocol support for Read, High Speed Read and Jedec ID Read

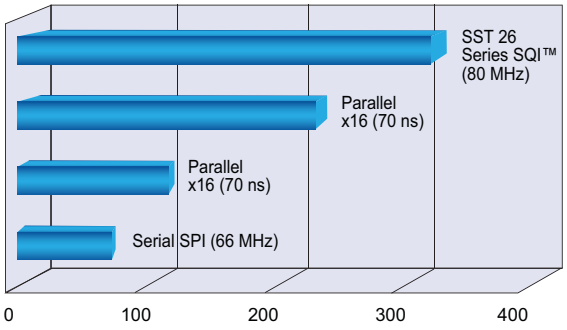
Burst Read
- 8, 16, 32, 64 byte burst with wrap around

Index Jump
- Reduce number of input clocks for faster data access

Write Suspend and Resume
- Suspend Program or Erase operation

Protection/Security
- Individual Block Locking (64 KB blocks with 8x8 KB parameter blocks)
- Write protection through Block-Protection bits in status register
- One Time Programmable (OTP) 256-bit Secure ID

Flash Performance Comparison



Sustained Data Transfer Rate (Mbit/sec)

Applications

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

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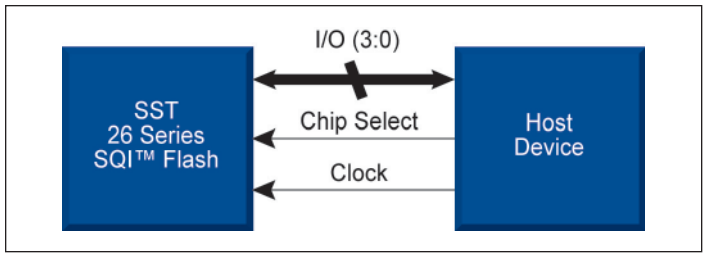
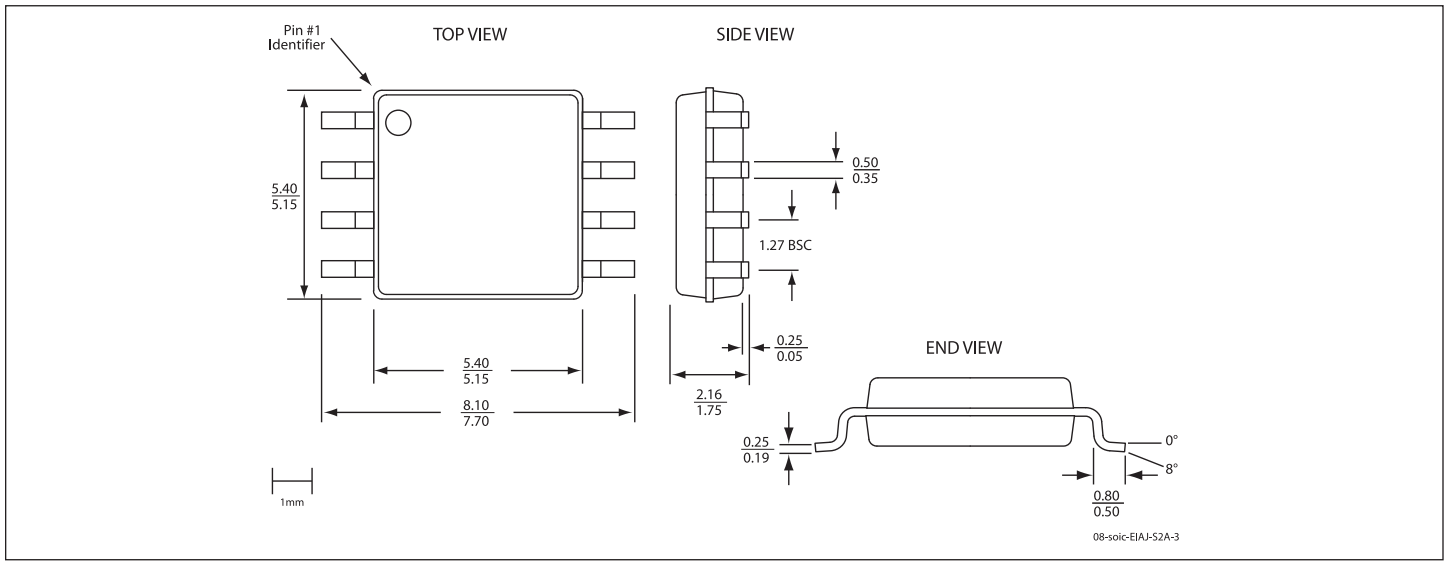
26 Series					
Device	Density	Voltage	Clock Frequency	Temperature	Packages
SST26VF016	16 Mbit	2.7-3.6V	80 MHz	Commercial/Industrial	SOIC-8, WSON-8
SST26VF032	32 Mbit	2.7-3.6V	80 MHz	Commercial/Industrial	SOIC-8, WSON-8
SST26VF064	64 Mbit	2.7-3.6V	80 MHz	Commercial/Industrial	SOIC-16

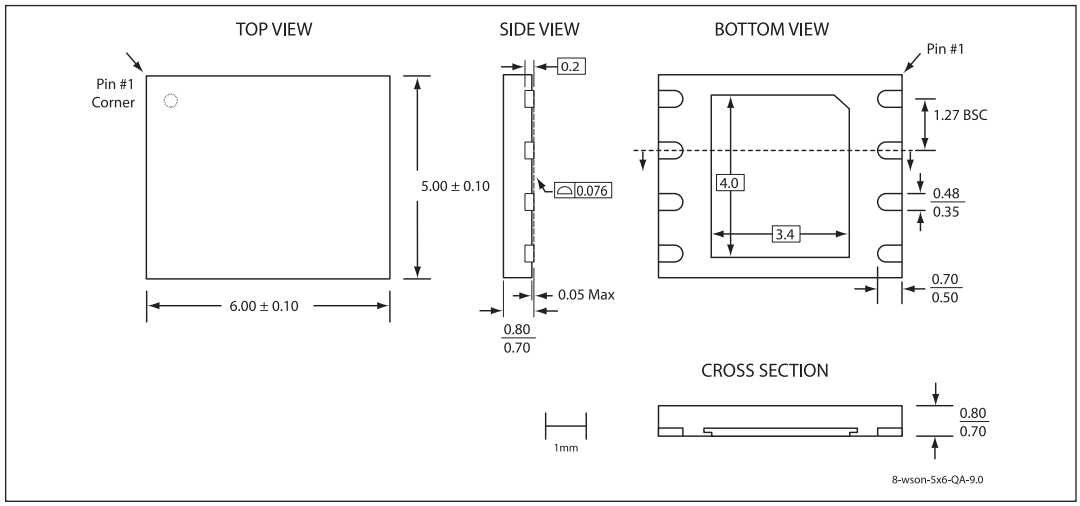
Interface



Package Diagram (SOIC-8)



Package Diagram (WSON-8)



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