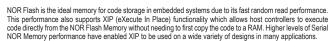
FLASH MEMORY ICS

SERIAL NOR FLASH MEMORY DEVICES **FEATURES**

- Fast Page Access Time: 25ns
 100,000 Erase Cycles (Typ.) per Sector
- 20 yr. Data Retention (Typ.)
 Hardware Reset Input Resets Device
- Support for CFI (Common Flash Interface)
 Single 3V Read/Program/Erase



RoHS Compliant Available

SPANSION

S25FL Spansion Memory 3.0 Volt-Only, Serial Peripheral Interface (SPI) Flash Memory			
Serial Felipheral Interface (SFI) Flash Memory			
064 = 64 Mbit			
P = 0.09 µm MirrorBit® Process Technology			
0X = 104 MHz			
M = 16-pin SO package N = 8-contact WSON 6 x 8mm package B = 24-ball BGA 6 x 8 mm package, 1.00 mm pitch			
F = Lead (Pb)-free H = Low-Halogen, Lead (Pb)-free			
I = Industrial (–40°C to + 85°C) V = Automotive In-cabin (–40°C to +105°C)			
03 = 6 x 4 pin configuration BGA package 02 = 5 x 5 pin configuration BGA package 00 = 16-pin SO package / 8-contact WSON package			
0 = Tray 1 = Tube 3 = 13" Tape and Reel			

				3 - 13 Tap	e and Reel	
Mfg. Part No.	Packaging	Memory Size	Frequency	Supply Voltage	Stock No.	Price Each 1-9+
Serial, 4K x 256Byte						
 S25FL208K0RMFI011 	SOIC-8	8Mbit	76MHz	2.7V-3.6V	45W4068	0.32
Serial, SPI						
 S25FL032P0XMFI001 	SOIC-16	32Mbit	104MHz	2.7V-3.6V	83P3960	
 S25FL032P0XMFI000 	SOIC-16	32Mbit	104MHz	2.7V-3.6V	83P3959	
 S25FL064P0XMFI001 	SOIC-16	64Mbit	104MHz	2.7V-3.6V	25R3528	
 S25FL064P0XMFI000 	SOIC-16	64Mbit	104MHz	2.7V-3.6V	32R8085	
 S25FL512SAGMFI011 	SOIC-16	512Mbit	133MHz	2.7V-3.6V	89T3260	
 S25FL032P0XMFI011 	SOIC-8	32Mbit	104MHz	2.7V-3.6V	83P3962	
 S25FL032P0XMFI010 	SOIC-8	32Mbit	104MHz	2.7V-3.6V	83P3961	
 S25FL064P0XNFI000 	WSON-8	64Mbit	104MHz	2.7V-3.6V	78R6724	
 S25FL128SAGNFI001 	WSON-8	128Mbit	133MHz	2.7V-3.6V	76T1520	
 S25FL256SAGNFI001 	WSON-8	256Mbit	133MHz	2.7V-3.6V	89T3244	3.37
Serial, SPI, 16M x 8bit						•
 S25FL128P0XNFI001 	WSON-8	128Mbit	104MHz	2.7V-3.6V	14N7118	
Serial, SPI, 8K x 256Byte	9					
 S25FL216K0PMFI011 	SOIC-8	16Mbit	65MHz	2.7V-3.6V	45W4074	
SPI						
 S25FL032P0XBHI020 	BGA-24	32Mbit	104MHz	2.7V-3.6V	89T0806	
 S25FL064P0XBHI020 	BGA-24	64Mbit	104MHz	2.7V-3.6V	63T2557	
 S25FL256SAGBHI200 	BGA-24	256Mbit	133MHz	2.7V-3.6V	76T1523	
 S25FL512SAGBHI310 	BGA-24	512Mbit	133MHz	2.7V-3.6V	89T3254	5.79
 S25FL128SAGMFI011 	SOIC-16	128Mbit	133MHz	2.7V-3.6V	76T1518	
 S25FL256SAGMFI001 	SOIC-16	256Mbit	133MHz	2.7V-3.6V	76T1528	
 S25FL256SAGMFI011 	SOIC-16	256Mbit	133MHz	2.7V-3.6V	76T1530	
 S25FL512SDPMFI011 	SOIC-16	512Mbit	66MHz	2.7V-3.6V	89T3267	
S25FL512SAGMFIG11	SOIC-16	512Mbit	133MHz	2.7V-3.6V	89T3257	4.56
 S25FL127SABNFI101 	USON-8	127Mbit	108MHz	2.7V-3.6V	97W1394	2.75
 S25FL116K0XNFI011 	WSON-8	16Mbit	108MHz	2.7V-3.6V	18X3621	
 S25FL032P0XNFI011 	WSON-8	32Mbit	104MHz	2.7V-3.6V	78R6723	
 S25FL064P0XNFI001 	WSON-8	64Mbit	104MHz	2.7V-3.6V	78R6725	
 S25FL128SAGNFI011 	WSON-8	128Mbit	133MHz	2.7V-3.6V	76T1522	
SPI, 16M x 8bit						
S25FL127SABBHIC00	BGA-24	128Mbit	108MHz	2.7V-3.6V	96W2387	
S25FL128SAGBHIA10	BGA-24	128Mbit	133MHz	2.7V-3.6V	76T1508	
 S25FL129P0XMFI000 	SOIC-16	128Mbit	104MHz	2.7V-3.6V	55R7079	
S25FL128SAGMFIG01	SOIC-16	128Mbit	133MHz	2.7V-3.6V	08X5946	
S25FL128SAGMFI000	SOIC-16	128Mbit	133MHz	2.7V-3.6V	76T1515	
S25FL128SAGMFI003	SOIC-16	128Mbit	133MHz	2.7V-3.6V	45W4060	1.78
 S25FL128SAGMFI010 	SOIC-16	128Mbit	133MHz	2.7V-3.6V	76T1517	1.78
S25FL128SAGMFIR01	SOIC-16	128Mbit	133MHz	2.7V-3.6V	76T1514	2.22
 S25FS128SAGMFI100 	SOIC-8	128Mbit	133MHz	1.7V-2V	20X1186	
 S25FS128SAGMFI101 	SOIC-8	128Mbit	133MHz	1.7V-2V	20X1187	
 S25FS128SDSNFI101 	WSON-8	128Mbit	80MHz	1.7V-2V	20X1189	2.47
 S25FS128SAGNFI101 	WSON-8	128Mbit	133MHz	1.7V-2V	20X1188	2.47
S25FL128SAGNFI000	WSON-8	128Mbit	133MHz	2.7V-3.6V	76T1519	
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SERIAL NOR FLASH MEMORY DEVICES (CONT.)

		Memory		Supply		Price Each	
Mfg. Part No.	Packaging	Size	Frequency	Voltage	Stock No.	1-9+	
SPI, 1M x 8bit							
 S25FL208K0RMFI010 	SOIC-8	8Mbit	76MHz	2.7V-3.6V	45W4067		
SPI, 2M x 8bit							
 S25FL216K0PMFI010 	SOIC-8	16Mbit	65MHz	2.7V-3.6V	45W4073		
 S25FL116K0XMFI011 	SOIC-8	16Mbit	108MHz	2.7V-3.6V	17X9753		
SPI, 32M x 8bit							
● S25FL256SAGBHIC00	BGA-24	256Mbit	133MHz	2.7V-3.6V	96W2390	3.34	
S25FL256SAGBHID00	BGA-24	256Mbit	133MHz	2.7V-3.6V	96W2391		
 S25FS256SDSMFI001 	SOIC-16	256Mbit	80MHz	1.7V-2V	20X1193	3.35	
 S70FL256P0XMFI001 	SOIC-16	256Mbit	104MHz	2.7V-3.6V	08X5977		
 S25FS256SAGMFI000 	SOIC-16	256Mbit	133MHz	1.7V-2V	20X1190	3.35	
 S25FS256SAGMFI001 	SOIC-16	256Mbit	133MHz	1.7V-2V	20X1191	3.35	
 S25FL256SAGMFIR01 	SOIC-16	256Mbit	133MHz	2.7V-3.6V	96W2392		
 S25FL256SAGMFI000 	SOIC-16	256Mbit	133MHz	2.7V-3.6V	76T1527		
● S25FL256SAGMFIG01	SOIC-16	256Mbit	133MHz	2.7V-3.6V	89T3242		
 S25FS256SDSNFI001 	WSON-16	256Mbit	80MHz	1.7V-2V	20X1194	3.35	
 S25FS256SAGNFI001 	WSON-16	256Mbit	133MHz	1.7V-2V	20X1192	3.35	
 S25FL256SAGNFI000 	WSON-8	256Mbit	133MHz	2.7V-3.6V	89T3243	2.23	
SPI, 4M x 8bit	•		•	•			
 S25FL032P0XMFI013 	SOIC-8	32Mbit	104MHz	2.7V-3.6V	90R9322		
 S25FL132K0XMFI011 	SOIC-8	32Mbit	108MHz	2.7V-3.6V	18X3622		
SPI, 512K x 8bit	•		•	•			
 S25FL204K0TMFI040 	SOIC-8	4Mbit	85MHz	2.7V-3.6V	45W4064	0.25	
SPI, 64M x 8bit							
S25FL512SAGBHIC10	BGA-24	512Mbit	133MHz	2.7V-3.6V	89T3248	8.15	
SPI, 8M x 8bit							
 S25FL064P0XMFI003 	SOIC-16	64Mbit	104MHz	2.7V-3.6V	55R7078		
 S25FL164K0XMFI001 	SOIC-16	64Mbit	108MHz	2.7V-3.6V	08X5952		
 S25FL164K0XMFI011 	SOIC-8	64Mbit	108MHz	2.7V-3.6V	08X5955		
 S25FL164K0XNFI011 	WSON-8	64Mbit	108MHz	2.7V-3.6V	08X5958		
PIM_211874							

PARALLEL NOR FLASH MEMORY





FEATURES

DEVICES

- Single 3V power supply
 AL-J Family have Standard Interface
 JL-J / PL-J Family have Simultaneous read/write
 CFI (Common Flash Interface) compliant
- 1 million cycles endurance

S29AL model number:

- 01 = VCC = 2.7-3.6V, top boot sector device (CFI)
- Support)

 02 = VCC = 2.7-3.6V, bottom boot sector device (CFI Support)
- 03 = VCC = 2.7-3.6V, top boot sector device (No CFI Support)

 04 = VCC = 2.7-3.6V, bottom boot sector device
- (No CFI Support)
- R1 = VCC = 3.0-3.6V, top boot sector device (CFI
- Support)
- R2 = VCC = 3.0-3.6V, bottom boot sector device

(CFI Support)

- S29JL model number:

 01 = Top Boot Device, 4 Banks: 4/12/12/4 Mb
- 02 = Bottom Boot Device, 4 Banks: 4/12/12/4 Mb
 21 = Top Boot Device, 2 Banks: 4/28 Mb
- 22 = Bottom Boot Device, 2 Banks: 4/28 Mb
 31 = Top Boot Device, 2 Banks: 8/24 Mb
- 32 = Bottom Boot Device, 2 Banks: 8/24 Mb
 41 = Top Boot Device, 2 Banks: 16/16 Mb
- 42 = Bottom Boot Device, 2 Banks: 16/16 Mb
- S29PL- model number:
- 00 = 3.0V VIO, 80-ball 11 x 8 mm FBGA (VBG080)
 01 = 1.8V VIO, 80-ball 11 x 8 mm FBGA (VBG080)
- 02 = 3.0V VIO, 64-ball 8 x 11.6 mm FBGA

- 0 2 = 3.0 V VIO, 04-0all 8 x 11.6 IIIII FBGA
 1 2 = 3.0 V VIO, 48-ball 8 x 6 mm FBGA (VBK048)
 1 3 = 3.0 V VIO, 56-pin 20 x 14 mm TSOP (TS056)
 1 5 = 3.0 V VIO, 56-ball 7 x 9 mm FBGA (VBU056)

Parallel NOR Flash Memory is designed to provide fast random access read performance and high bandwidth. NOR Flash family is optimized for the voltage, density, cost-per-bit, reliability, performance and scalability needs of a wide variety of embedded applications. Each device requires only a single 3.0V power supply for read and write functions and is entirely command set compatible with the JEDEC Flash standards.

		Memory	Supply		Price Each		
Mfg. Part No.	Packaging	Size	Voltage	Stock No.	1-9+		
CFI, Parallel, 1M x 8bit / 512K x 16bit							
 S29AL008J70BFI020 	BGA-48	8Mbit	2.7V-3.6V	43P9762			
 S29AL008J70TFI010 	TSOP-48	8Mbit	2.7V-3.6V	43P9763			
 S29AL008J70TFI020 	TSOP-48	8Mbit	2.7V-3.6V	43P9764	0.89		
CFI, Parallel, 2M x 16bit							
 S29PL032J70BAI120 	BGA-48	32Mbit	2.7V-3.6V	42K8639			
 S29PL032J70BFI120 	BGA-48	32Mbit	2.7V-3.6V	44J2245	2.94		
CFI, Parallel, 2M x 8bit / 1M x 16bit							
 S29AL016J70BFI010 	BGA-48	16Mbit	2.7V-3.6V	12P0103			
 S29AL016J70TFI010 	TSOP-48	16Mbit	2.7V-3.6V	43P9766	1.61		
 S29AL016J70TFI020 	TSOP-48	16Mbit	2.7V-3.6V	43P9767	2.17		
CFI, Parallel, 4M x 16bit							
 S29PL064J70BFI120 	BGA-48	64Mbit	2.7V-3.6V	44J2247			
 S29PL064J70BAI120 	BGA-48	64Mbit	2.7V-3.6V	64J8411			
CFI, Parallel, 4M x 8bit / 2M x 16bit							
 S29JL032J70TFI320 	TSOP-48	32Mbit	2.7V-3.6V	90R9336			
 S29JL032J70TFI020 	TSOP-48	32Mbit	2.7V-3.6V	90R9332	1.84		

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