2-WIRE SERIAL E²PROM — S-24C series

■ SPECIFICATIONS

Item / Product name	Memory size	Organization	Page write	Operating voltage		Current consumption		Clock frequency (max.)	Slave address	Protect area	Package
				Read	Write	Read (max.)	Standby (max.)				
S-24C01A	1 Kb	128 x 8 bits	8 bytes	1.8 V to 5.5 V	2.5 V to 5.5 V	0.3 mA (3.3 V) 0.4 mA (5.5 V)	0.6 µA (3.3 V) 1.0 µA (5.5 V)	100 kHz	Yes	-	8DIP/8SOP
S-24C02A	2 Kb	256 x 8 bits	8 bytes	1.8 V to 5.5 V	2.5 V to 5.5 V	0.3 mA (3.3 V) 0.4 mA (5.5 V)	0.6 µA (3.3 V) 1.0 µA (5.5 V)	100 kHz	Yes	50% (second half)	
S-24C04A	4 Kb	512 x 8 bits	16 bytes	1.8 V to 5.5 V	2.5 V to 5.5 V	0.3 mA (3.3 V) 0.4 mA (5.5 V)	0.6 µA (3.3 V) 1.0 µA (5.5 V)	100 kHz	Yes	50% (second half)	
S-24C08A	8 Kb	1K x 8 bits	16 bytes	1.8 V to 5.5 V	2.5 V to 5.5 V	0.8 mA (5.5 V, 400 kHz)	0.6 µA (3.3 V) 1.0 µA (5.5 V)	400 kHz (4.5 to 5.5 V) 100 kHz (1.8 to 5.5 V)	Yes	100%	
S-24C16A	16 Kb	2K x 8 bits	16 bytes	1.8 V to 5.5 V	2.5 V to 5.5 V	0.8 mA (5.5 V, 400 kHz)	0.6 µA (3.3 V) 1.0 µA (5.5 V)	400 kHz (4.5 to 5.5 V) 100 kHz (1.8 to 5.5 V)	Yes	100%	
S-24C01B	1 Kb	128 x 8 bits	8 bytes	2.0 V to 5.5 V	2.0 V to 5.5 V	0.8 mA (5.5 V, 400 kHz)	1.0 µA (5.5 V)	400 kHz (4.5 to 5.5 V) 100 kHz (2.0 to 5.5 V)	-	100%	8DIP/8SOP 8MSOP
S-24C02B	2 Kb	256 x 8 bits	8 bytes	2.0 V to 5.5 V	2.0 V to 5.5 V	0.8 mA (5.5 V, 400 kHz)	1.0 µA (5.5 V)	400 kHz (4.5 to 5.5 V) 100 kHz (2.0 to 5.5 V)	-	50% (second half)	
S-24C04B	4 Kb	512 x 8 bits	16 bytes	2.0 V to 5.5 V	2.0 V to 5.5 V	0.8mA (5.5 V, 400 kHz)	1.0 µA (5.5 V)	400 kHz (4.5 to 5.5 V) 100 kHz (2.0 to 5.5 V)	-	50% (second half)	

3-WIRE SERIAL E²PROM — S-93C46A/56A/66A, S-29 series

■ SPECIFICATIONS

Memory size	Product name	Organization	Instruction code	Functions				Package	Operating voltage		Current consumption		Clock frequency (max.)
				Continuous read operation*1	Memory protection*2	CS active*3	Micro-computer interface*4		Read	Write	Read (max.)	Standby (max.)	
512 bits	S-2900A	64 x 8	SII original	-	-	H	Yes	8DIP/SOP SOT-89-5 Die	1.5 to 5.5 V	2.7 to 5.5 V	1.4 mA(5.5 V) 0.4 mA(1.5 V)	1.0 µA	2.0 MHz
1 Kb	S-93C46A	64 x 16	NM93CS46 compatible	Yes	-	H	-	8DIP/SOP 8TSSOP 8MSOP	1.8 to 5.5 V	1.8 to 5.5 V	0.8 mA (5.5 V) 0.4 mA (2.5 V)	1.0 µA	0.25 MHz (1.8 V) to 2.0 MHz (5.5 V)
	S-29130A	64 x 16	NM93CS46 compatible	Yes	-	H	-	8DIP/SOP	1.8 to 6.5 V	2.5 to 6.5 V		1.0 µA	2.0 MHz
	S-29131A	32 x 16 + 32 x 16	NM93CS46 compatible	Yes	Yes	H	-	8DIP/SOP					
	S-29190A	64 x 16	SII original	Yes	-	H	Yes	8DIP/SOP					
	S-29191A	32 x 16 + 32 x 16	SII original	Yes	Yes	H	Yes	8DIP/SOP					
	S-29194A	32 x 16 + 32 x 16	SII original	Yes	Yes	L	Yes	8DIP/SOP					
2 Kb	S-93C56A	128 x 16	NM93CS56 compatible	Yes	-	H	-	8DIP/SOP 8TSSOP 8MSOP	1.8 to 5.5 V	1.8 to 5.5 V		1.0 µA	0.25 MHz (1.8 V) to 2.0 MHz (5.5 V)
	S-29220A	128 x 16	NM93CS56 compatible	Yes	-	H	-	8DIP/SOP	1.8 to 6.5 V	2.5 to 6.5 V		1.0 µA	2.0 MHz
	S-29221A	64 x 16 + 64 x 16	NM93CS56 compatible	Yes	Yes	H	-	8DIP/SOP					
	S-29231A	64 x 16 + 64 x 16	CAT33C102 compatible	Yes	Yes	H	-	8DIP/SOP					
	S-29230A	128 x 16	CAT35C102 compatible	Yes	-	H	-	8DIP/SOP					
	S-29290A	128 x 16	SII original	Yes	-	H	Yes	8DIP/SOP					
	S-29291A	64 x 16 + 64 x 16	SII original	Yes	Yes	H	Yes	8DIP/SOP					
	S-29294A	64 x 16 + 64 x 16	SII original	Yes	Yes	L	Yes	8DIP/SOP					
	S-29255A	128 x 16	M6M80021 compatible	-	△	L	Yes	8DIP/SOP	1.8 to 6.5 V	2.7 to 6.5 V	2.0 mA		
4 Kb	S-93C66A	256 x 16	NM93CS66 compatible	Yes	-	H	-	8DIP/SOP 8TSSOP 8MSOP	1.8 to 5.5 V	1.8 to 5.5 V	0.8 mA (5.5 V) 0.4 mA (2.5 V)	1.0 µA	0.25 MHz (1.8 V) to 2.0 MHz (5.5 V)
	S-29331A	128x16+128x16	NM93CS66 compatible	Yes	Yes	H	-	8DIP/SOP	1.8 to 6.5 V	2.5 to 6.5 V		1.0 µA	2.0 MHz
	S-29330A	256 x 16	NM93CS66 compatible	Yes	-	H	-	8DIP/SOP					
	S-29390A	256 x 16	SII original	Yes	-	H	Yes	8DIP/SOP					
	S-29391A	128x16+128x16	SII original	Yes	Yes	H	Yes	8DIP/SOP					
	S-29394A	128x16+128x16	SII original	Yes	Yes	L	Yes	8DIP/SOP					
	S-29355A	256 x 16	M6M80041 compatible	-	△	L	Yes	8DIP/SOP	1.8 to 6.5 V	2.7 to 6.5 V	2.0 mA		
8 Kb	S-29430A	512 x 16	NM93Cxx compatible	Yes	-	H	-	8DIP/SOP	1.8 to 5.5 V	2.5 to 5.5 V	1.2 mA (5.5 V) 0.4 mA (2.5 V)	1.0 µA	2.0 MHz
	S-29453A		M6M800x1 compatible	Yes	-	L	Yes	8DIP/SOP					
16 Kb	S-29530A	1024 x 16	NM93Cxx compatible	Yes	-	H	-	8DIP/SOP Die*5	1.8 to 5.5 V	1.8 to 5.5 V		1.0 µA	0.20 MHz (1.8 V) to 1.4 MHz (5.5 V)
	S-29590A		SII original	Yes	-	H	Yes						
32 Kb	S-29630A	2048 x 16	NM93Cxx compatible	Yes	-	H	-						
	S-29690A		SII original	Yes	-	H	Yes						

*1. In a continuous read operation the address is incremented automatically every 16 bits.
*2. 50% memory protection from the first address.
*3. CS: Chip Select
*4. 8-bit instruction code configuration enables easy interface with a serial port.
*5. Contact our sales office.
Remark △: Memory protection by RESET pin