Features

- Low-voltage and Standard-voltage Operation
 - 5.0 (V_{CC} = 4.5V to 5.5V)
 - $-2.7 (V_{CC} = 2.7V \text{ to } 5.5V)$
 - $-2.5 (V_{CC} = 2.5V \text{ to } 5.5V)$
 - 1.8 (V_{cc} = 1.8V to 5.5V)
- User-selectable Internal Organization
 - 1K: 128 x 8 or 64 x 16
 - 2K: 256 x 8 or 128 x 16
 - 4K: 512 x 8 or 256 x 16
- 3-wire Serial Interface
 AMUE Objects (5)()
- 2 MHz Clock Rate (5V)
 Solf timed Write Cycle (10)
- Self-timed Write Cycle (10 ms max)
- High Reliability
 - Endurance: 1 Million Write Cycles
 - Data Retention: 100 Years
- Automotive Grade and Extended Temperature Devices Available
- 8-lead PDIP, 8-lead JEDEC and EIAJ SOIC, and 8-lead TSSOP Packages

Description

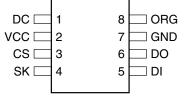
The AT93C46/56/66 provides 1024/2048/4096 bits of serial electrically erasable programmable read only memory (EEPROM) organized as 64/128/256 words of 16 bits each, when the ORG pin is connected to VCC and 128/256/512 words of 8 bits each when it is tied to ground. The device is optimized for use in many industrial and commercial applications where low power and low voltage operations are essential. The AT93C46/56/66 is available in space-saving 8-lead PDIP and 8-lead JEDEC and EIAJ SOIC packages. *(continued)*

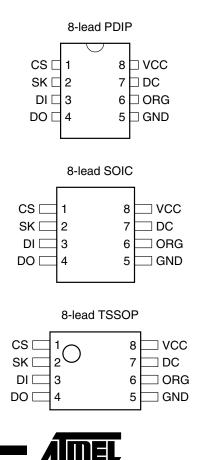
AT93C46 AT93C56 AT93C66

Pin Configurations

Pin Name	Function			
CS	Chip Select			
SK	Serial Data Clock			
DI	Serial Data Input			
DO	Serial Data Output			
GND	Ground			
VCC	Power Supply			
ORG	Internal Organization			
DC	Don't Connect			

8-lead SOIC Rotated (R) (1K JEDEC Only)









3-wire Serial EEPROMs

1K (128 x 8 or 64 x 16)

2K (256 x 8 or 128 x 16)

4K (512 x 8 or 256 x 16)

Rev. 01720-08/01



The AT93C46/56/66 is enabled through the Chip Select pin (CS), and accessed via a 3-wire serial interface consisting of Data Input (DI), Data Output (DO), and Shift Clock (SK). Upon receiving a READ instruction at DI, the address is decoded and the data is clocked out serially on the data output pin DO. The WRITE cycle is completely self-timed and no separate ERASE cycle is required before WRITE. The WRITE cycle is only enabled when the part is in the ERASE/WRITE ENABLE state. When CS is brought "high" following the initiation of a WRITE cycle, the DO pin outputs the READY/BUSY status of the part.

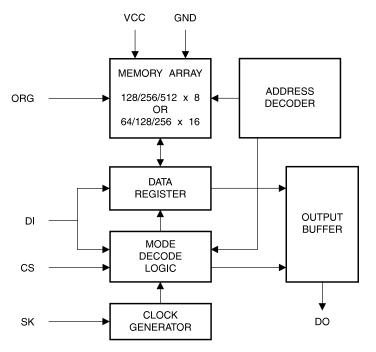
The AT93C46 is available in 4.5V to 5.5V, 2.7V to 5.5V, 2.5V to 5.5V, and 1.8V to 5.5V versions. The AT93C56/66 is available in 4.5V to 5.5V, 2.7V to 5.5V, and 2.5V to 5.5V versions.

Absolute Maximum Ratings*

Operating Temperature55°C to +125°C
Storage Temperature65°C to +150°C
Voltage on Any Pin with Respect to Ground1.0V to +7.0V
Maximum Operating Voltage 6.25V
DC Output Current 5.0 mA

*NOTICE: Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability

Block Diagram



- Notes: 1. When the ORG pin is connected to VCC, the x 16 organization is selected. When it is connected to ground, the x 8 organization is selected. If the ORG pin is left unconnected and the application does not load the input beyond the capability of the internal 1 Meg ohm pullup, then the x 16 organization is selected. The feature is not available on the 1.8V devices.
 - 2. For the AT93C46, if x 16 organization is the mode of choice and Pin 6 (ORG) is left unconnected, Atmel recommends using the AT93C46A device. For more details, see the AT93C46A datasheet.

² AT93C46/56/66

Pin Capacitance⁽¹⁾

Applicable over recommended operating range from $T_A = 25^{\circ}C$, f = 1.0 MHz, $V_{CC} = +5.0V$ (unless otherwise noted).

Symbol	Test Conditions	Max	Units	Conditions
C _{OUT}	Output Capacitance (DO)	5	pF	$V_{OUT} = 0V$
C _{IN}	Input Capacitance (CS, SK, DI)	5	pF	$V_{IN} = 0V$

Note: 1. This parameter is characterized and is not 100% tested.

DC Characteristics

Applicable over recommended operating range from: $T_{AI} = -40^{\circ}C$ to $+85^{\circ}C$, $V_{CC} = +1.8V$ to +5.5V, $T_{AC} = 0^{\circ}C$ to $+70^{\circ}C$, $V_{CC} = +1.8V$ to +5.5V (unless otherwise noted).

Symbol	Parameter	Test Condition		Min	Тур	Max	Unit
V _{CC1}	Supply Voltage			1.8		5.5	V
V _{CC2}	Supply Voltage			2.5		5.5	V
V _{CC3}	Supply Voltage			2.7		5.5	V
V_{CC4}	Supply Voltage			4.5		5.5	V
1	Supply Current	V – F 0V	READ at 1.0 MHz		0.5	2.0	mA
I _{cc}	Supply Current	$V_{CC} = 5.0V$	WRITE at 1.0 MHz		0.5	2.0	mA
I _{SB1}	Standby Current	$V_{\rm CC} = 1.8V$	CS = 0V		0	0.1	μA
I _{SB2}	Standby Current	$V_{CC} = 2.5V$	CS = 0V		6.0	10.0	μA
I _{SB3}	Standby Current	$V_{CC} = 2.7V$	CS = 0V		6.0	10.0	μA
I _{SB4}	Standby Current	$V_{CC} = 5.0V$	CS = 0V		17	30	μA
I _{IL}	Input Leakage	$V_{IN} = 0V$ to V_{CC}			0.1	1.0	μA
I _{OL}	Output Leakage	$V_{IN} = 0V$ to V_{CC}			0.1	1.0	μA
$V_{IL1}^{(1)}$ $V_{IH1}^{(1)}$	Input Low Voltage Input High Voltage	$4.5V \le V_{CC} \le 5.5V$		-0.6 2.0		0.8 V _{CC} + 1	V
$V_{IL2}^{(1)}$ $V_{IH2}^{(1)}$	Input Low Voltage Input High Voltage	$1.8V \le V_{CC} \le 2.7V$		-0.6 V _{CC} x 0.7		V _{CC} x 0.3 V _{CC} + 1	V
V _{OL1}	Output Low Voltage		I _{OL} = 2.1 mA			0.4	V
V _{OH1}	Output High Voltage	$4.5V \le V_{CC} \le 5.5V$	I _{OH} = -0.4 mA	2.4			V
V _{OL2}	Output Low Voltage	1.0 V < V < 0.7 V	I _{OL} = 0.15 mA			0.2	V
V _{OH2}	$1.8V \le V_{CC} \le 2.7V$		I _{OH} = -100 μA	V _{CC} - 0.2			V

Note: 1. V_{IL} min and V_{IH} max are reference only and are not tested.





AC Characteristics

Applicable over recommended operating range from $T_A = -40^{\circ}C$ to $+ 85^{\circ}C$, $V_{CC} = As$ Specified, CL = 1 TTL Gate and 100 pF (unless otherwise noted).

Symbol	Parameter	Test Condition		Min	Тур	Max	Units
f _{SK}	SK Clock Frequency	$\begin{array}{l} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \end{array}$		0 0 0 0		2 1 0.5 0.25	MHz
t _{sкн}	SK High Time	$\begin{array}{l} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \end{array}$		250 250 500 1000			ns
t _{skl}	SK Low Time	$\begin{array}{l} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \end{array}$		250 250 500 1000			ns
t _{cs}	Minimum CS Low Time	$\begin{array}{c} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \\ \end{array}$		250 250 500 1000			ns
t _{css}	CS Setup Time	Relative to SK	$\begin{array}{l} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \end{array}$	50 50 100 200			ns
t _{DIS}	DI Setup Time	Relative to SK	$\begin{array}{l} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \end{array}$	100 100 200 400			ns
t _{CSH}	CS Hold Time	Relative to SK		0			ns
t _{DIH}	DI Hold Time	Relative to SK	$\begin{array}{c} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \\ \end{array}$	100 100 200 400			ns
t _{PD1}	Output Delay to '1'	AC Test	$\begin{array}{c} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \\ \end{array}$			250 250 500 1000	ns
t _{PD0}	Output Delay to '0'	AC Test	$\begin{array}{c} 4.5V \leq V_{CC} \leq 5.5V \\ 2.7V \leq V_{CC} \leq 5.5V \\ 2.5V \leq V_{CC} \leq 5.5V \\ 1.8V \leq V_{CC} \leq 5.5V \\ \end{array}$			250 250 500 1000	ns
t _{SV}	CS to Status Valid	AC Test	$\begin{array}{l} 4.5V \leq V_{CC} \; \leq 5.5V \\ 2.7V \leq V_{CC} \; \leq 5.5V \\ 2.5V \leq V_{CC} \; \leq 5.5V \\ 1.8V \leq V_{CC} \; \leq 5.5V \\ \end{array}$			250 250 500 1000	ns
t _{DF}	CS to DO in High Impedance	AC Test CS = V _{IL}	$\begin{array}{c} 4.5V \leq V_{CC} \ \leq 5.5V \\ 2.7V \leq V_{CC} \ \leq 5.5V \\ 2.5V \leq V_{CC} \ \leq 5.5V \\ 1.8V \leq V_{CC} \ \leq 5.5V \\ \end{array}$			100 100 200 400	ns
tur	Write Cycle Time					10	ms
t _{WP}		$4.5V \leq V_{CC} \leq 5.5V$		3		ms	
Endurance ⁽¹⁾	5.0V, 25°C, Page Mo	ode		1M			Write Cycles

Note: 1. This parameter is characterized and is not 100% tested.

Instruction Set for the AT93C46

		Ор	Add	ress	D	ata	
Instruction	SB	Code	x 8	x 16	x 8	x 16	Comments
READ	1	10	A ₆ - A ₀	A ₅ - A ₀			Reads data stored in memory, at specified address.
EWEN	1	00	11XXXXX	11XXXX			Write enable must precede all programming modes.
ERASE	1	11	A ₆ - A ₀	A ₅ - A ₀			Erase memory location $A_n - A_0$.
WRITE	1	01	A ₆ - A ₀	A ₅ - A ₀	D ₇ - D ₀	D ₁₅ - D ₀	Writes memory location $A_n - A_0$.
ERAL	1	00	10XXXXX	10XXXX			Erases all memory locations. Valid only at V_{CC} = 4.5V to 5.5V.
WRAL	1	00	01XXXXX	01XXXX	D ₇ - D ₀	D ₁₅ - D ₀	Writes all memory locations. Valid only at V_{CC} = 4.5V to 5.5V.
EWDS	1	00	00XXXXX	00XXXX			Disables all programming instructions.





Functional Description

The AT93C46/56/66 is accessed via a simple and versatile 3-wire serial communication interface. Device operation is controlled by seven instructions issued by the host processor. **A valid instruction starts with a rising edge of CS** and consists of a Start Bit (logic "1") followed by the appropriate Op Code and the desired memory Address location.

READ (READ): The Read (READ) instruction contains the Address code for the memory location to be read. After the instruction and address are decoded, data from the selected memory location is available at the serial output pin DO. Output data changes are synchronized with the rising edges of serial clock SK. It should be noted that a dummy bit (logic "0") precedes the 8- or 16-bit data output string.

ERASE/WRITE (EWEN): To assure data integrity, the part automatically goes into the Erase/Write Disable (EWDS) state when power is first applied. An Erase/Write Enable (EWEN) instruction must be executed first before any programming instructions can be carried out. Please note that once in the Erase/Write Enable state, programming remains enabled until an Erase/Write Disable (EWDS) instruction is executed or V_{CC} power is removed from the part.

ERASE (ERASE): The Erase (ERASE) instruction programs all bits in the specified memory location to the logical "1" state. The self-timed erase cycle starts once the ERASE instruction and address are decoded. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). A logic "1" at pin DO indicates that the selected memory location has been erased, and the part is ready for another instruction.

WRITE (WRITE): The Write (WRITE) instruction contains the 8 or 16 bits of data to be written into the specified memory location. The self-timed programming cycle, t_{WP} , starts after the last bit of data is received at serial data input pin DI. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). A logic "0" at DO indicates that programming is still in progress. A logic "1" indicates that the memory location at the specified address has been written with the data pattern contained in the instruction and the part is ready for further instructions. A **READY/BUSY status cannot be obtained if the CS is brought high after the end of the self-timed programming cycle, t_{WP}.**

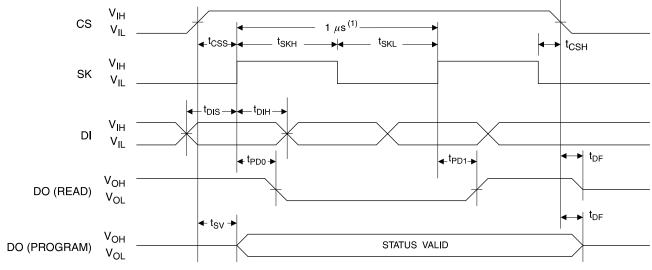
ERASE ALL (ERAL): The Erase All (ERAL) instruction programs every bit in the memory array to the logic "1" state and is primarily used for testing purposes. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). The ERAL instruction is valid only at $V_{CC} = 5.0V \pm 10\%$.

WRITE ALL (WRAL): The Write All (WRAL) instruction programs all memory locations with the data patterns specified in the instruction. The DO pin outputs the READY/BUSY status of the part if CS is brought high after being kept low for a minimum of 250 ns (t_{CS}). The WRAL instruction is valid only at $V_{CC} = 5.0V \pm 10\%$.

ERASE/WRITE DISABLE (EWDS): To protect against accidental data disturb, the Erase/Write Disable (EWDS) instruction disables all programming modes and should be executed after all programming operations. The operation of the READ instruction is independent of both the EWEN and EWDS instructions and can be executed at any time.

Timing Diagrams

Synchronous Data Timing



Note: 1. This is the minimum SK period.

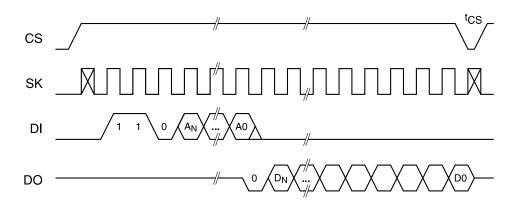
Organization Key for Timing Diagrams

	AT93C46 (1K)		AT93C	AT93C56 (2K)		66 (4K)
I/O	x 8	x 16	x 8	x 16	x 8	x 16
A _N	A ₆	A ₅	A ₈ ⁽¹⁾	A ₇ ⁽²⁾	A ₈	A ₇
D _N	D ₇	D ₁₅	D ₇	D ₁₅	D ₇	D ₁₅

Notes: 1. A₈ is a DON'T CARE value, but the extra clock is required.

2. A_7 is a DON'T CARE value, but the extra clock is required.

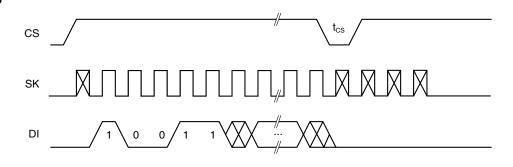
READ Timing



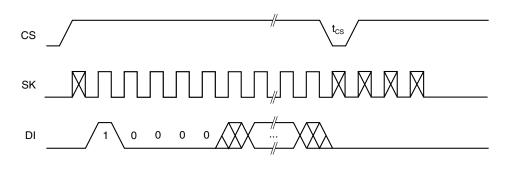




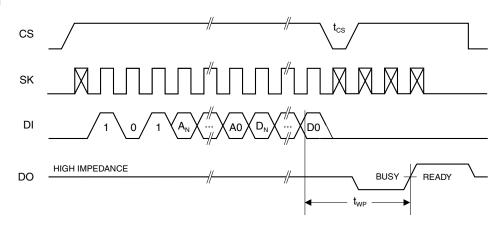
EWEN Timing



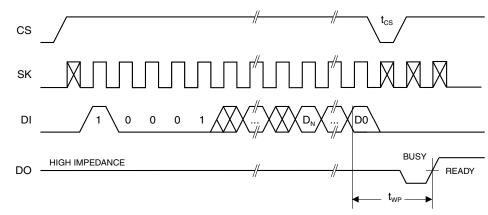
EWDS Timing



WRITE Timing



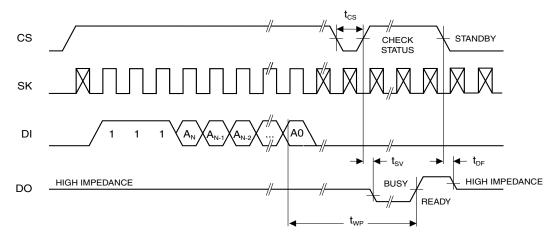
WRAL Timing⁽¹⁾



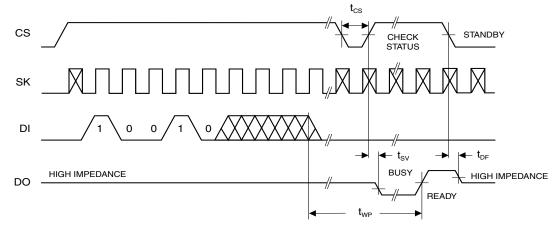
Note: 1. Valid only at $V_{CC} = 4.5V$ to 5.5V.

AT93C46/56/66

ERASE Timing



ERAL Timing⁽¹⁾



Note: 1. Valid only at $V_{CC} = 4.5V$ to 5.5V.





AT93C46 Ordering Information

t _{wP} (max) (ms)	l _{cc} (max) (μΑ)	I _{SB} (max) (μΑ)	f _{MAX} (kHz)	Ordering Code	Package	Operation Range
10	2000	30.0	2000	AT93C46-10PC	8P3	Commercial
				AT93C46-10SC	8S1	(0°C to 70°C)
				AT93C46R-10SC	8S1	
				AT93C46W-10SC	8S2	
				AT93C46-10TC	8T	
		30.0	2000	AT93C46-10PI	8P3	Industrial
				AT93C46-10SI	8S1	(-40°C to 85°C)
				AT93C46R-10SI	8S1	
				AT93C46W-10SI	8S2	
				AT93C46-10TI	8T	
10	800	10.0	1000	AT93C46-10PC-2.7	8P3	Commercial
				AT93C46-10SC-2.7	8S1	(0°C to 70°C)
				AT93C46R-10SC-2.7	8S1	
				AT93C46W-10SC-2.7	8S2	
				AT93C46-10TC-2.7	8T	
		10.0	1000	AT93C46-10PI-2.7	8P3	Industrial
				AT93C46-10SI-2.7	8S1	(-40°C to 85°C)
				AT93C46R-10SI-2.7	8S1	
				AT93C46W-10SI-2.7	8S2	
				AT93C46-10TI-2.7	8T	

Package Type						
8P3	8-lead, 0.300" Wide, Plastic Dual Inline Package (PDIP)					
8S1	8-lead, 0.150" Wide, Plastic Gull Wing Small Outline (JEDEC SOIC)					
8S2	8-lead, 0.200" Wide, Plastic Gull Wing Small Outline (EIAJ SOIC)					
8T	8-lead, 0.170" Wide, Thin Shrink Small Outline Package (TSSOP)					
	Options					
Blank	Standard Operation (4.5V to 5.5V)					
-2.7	Low Voltage (2.7V to 5.5V)					
-2.5	Low Voltage (2.5V to 5.5V)					
R	Rotated Pinout					

AT93C46 Ordering Information (Continued)

t _{wP} (max) (ms)	l _{cc} (max) (μΑ)	I _{SB} (max) (μΑ)	f _{MAX} (kHz)	Ordering Code	Package	Operation Range
10	600	10.0	500	AT93C46-10PC-2.5	8P3	Commercial
				AT93C46-10SC-2.5	8S1	(0°C to 70°C)
				AT93C46R-10SC-2.5	8S1	
				AT93C46W-10SC-2.5	8S2	
				AT93C46-10TC-2.5	8T	
		10.0	500	AT93C46-10PI-2.5	8P3	Industrial
				AT93C46-10SI-2.5	8S1	(-40°C to 85°C)
				AT93C46R-10SI-2.5	8S1	
				AT93C46W-10SI-2.5	8S2	
				AT93C46-10TI-2.5	8T	
10	80	0.1	250	AT93C46-10PC-1.8	8P3	Commercial
				AT93C46-10SC-1.8	8S1	(0°C to 70°C)
				AT93C46R-10SC-1.8	8S1	
				AT93C46W-10SC-1.8	8S2	
				AT93C46-10TC-1.8	8T	
		0.1	250	AT93C46-10PI-1.8	8P3	Industrial
				AT93C46-10SI-1.8	8S1	(-40°C to 85°C)
				AT93C46R-10SI-1.8	8S1	
				AT93C46W-10SI-1.8	8S2	
				AT93C46-10TI-1.8	8T	

	Package Type					
8P3	8-lead, 0.300" Wide, Plastic Dual Inline Package (PDIP)					
8S1	8-lead, 0.150" Wide, Plastic Gull Wing Small Outline (JEDEC SOIC)					
8S2	8-lead, 0.200" Wide, Plastic Gull Wing Small Outline (EIAJ SOIC)					
8T	8-lead, 0.170" Wide, Thin Shrink Small Outline Package (TSSOP)					
	Options					
Blank	Standard Operation (4.5V to 5.5V)					
-2.7	Low Voltage (2.7V to 5.5V)					
-2.5	Low Voltage (2.5V to 5.5V)					
-1.8	Low Voltage (1.8V to 5.5V)					
R	Rotated Pinout					





AT93C56 Ordering Information

t _{wP} (max) (ms)	l _{cc} (max) (μΑ)	l _{SB} (max) (μΑ)	f _{MAX} (kHz)	Ordering Code	Package	Operation Range
10	2000	30.0	2000	AT93C56-10PC	8P3	Commercial
				AT93C56-10SC	8S1	(0°C to 70°C)
				AT93C56W-10SC	8S2	
		30.0	2000	AT93C56-10PI	8P3	Industrial
				AT93C56-10SI	8S1	(-40°C to 85°C)
				AT93C56W-10SI	8S2	
10	800	10.0	1000	AT93C56-10PC-2.7	8P3	Commercial
				AT93C56-10SC-2.7	8S1	(0°C to 70°C)
				AT93C56W-10SC-2.7	8S2	
		10.0	1000	AT93C56-10PI-2.7	8P3	Industrial
				AT93C56-10SI-2.7	8S1	(-40°C to 85°C)
				AT93C56W-10SI-2.7	8S2	
10	600	10.0	500	AT93C56-10PC-2.5	8P3	Commercial
				AT93C56-10SC-2.5	8S1	(0°C to 70°C)
				AT93C56W-10SC-2.5	8S2	
		10.0	500	AT93C56-10PI-2.5	8P3	Industrial
				AT93C56-10SI-2.5	8S1	(-40°C to 85°C)
				AT93C56W-10SI-2.5	8S2	

Package Type						
8P3	8-lead, 0.300" Wide, Plastic Dual Inline Package (PDIP)					
8S1	8-lead, 0.150" Wide, Plastic Gull Wing Small Outline (JEDEC SOIC)					
8S2	8-lead, 0.200" Wide, Plastic Gull Wing Small Outline (EIAJ SOIC)					
Options						
Blank	Standard Operation (4.5V to 5.5V)					
-2.7	Low Voltage (2.7V to 5.5V)					
-2.5	Low Voltage (2.5V to 5.5V)					

12 AT93C46/56/66

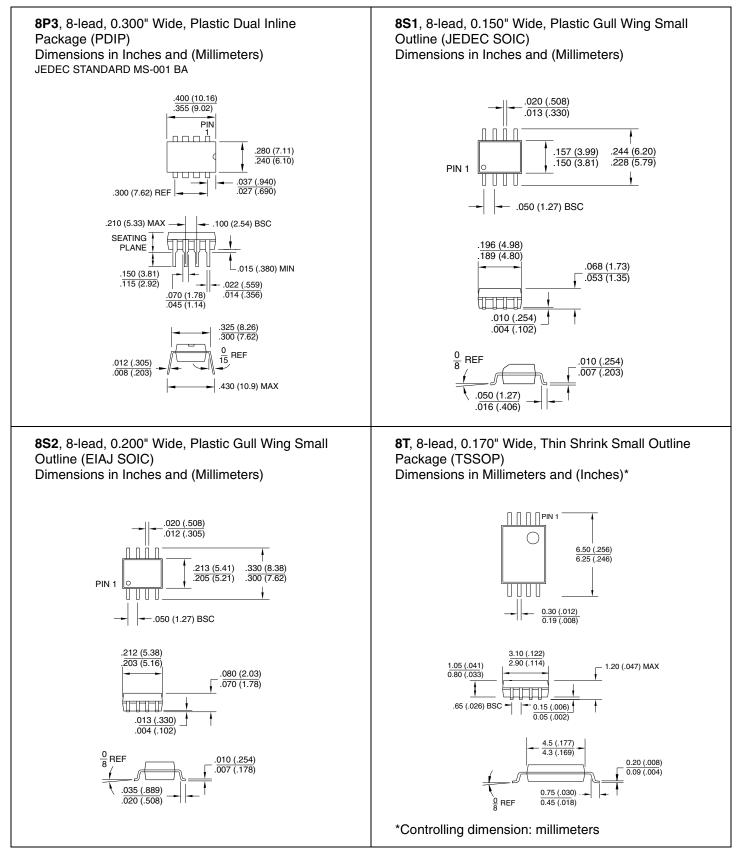
AT93C66 Ordering Information

t _{wp} (max) (ms)	l _{cc} (max) (μΑ)	I _{SB} (max) (μΑ)	f _{MAX} (kHz)	Ordering Code	Package	Operation Range		
10	2000	30.0	2000	AT93C66-10PC	8P3	Commercial		
				AT93C66-10SC	8S1	(0°C to 70°C)		
				AT93C66W-10SC	8S2			
				AT93C66-10TC	8T			
		30.0	2000	AT93C66-10PI	8P3	Industrial		
				AT93C66-10SI	8S1	(-40°C to 85°C)		
				AT93C66W-10SI	8S2			
				AT93C66-10TI	8T			
10	800	10.0	1000	AT93C66-10PC-2.7	8P3	Commercial		
				AT93C66-10SC-2.7	8S1	(0°C to 70°C)		
				AT93C66W-10SC-2.7	8S2			
				AT93C66-10TC-2.7	8T			
		10.0	1000	AT93C66-10PI-2.7	8P3	Industrial		
				AT93C66-10SI-2.7	8S1	(-40°C to 85°C)		
				AT93C66W-10SI-2.7	8S2 8T			
		10.0	500	AT93C66-10TI-2.7				
10	600	10.0	500	AT93C66-10PC-2.5 AT93C66-10SC-2.5	8P3 8S1	Commercial		
				AT93C66W-10SC-2.5	8S2	(0°C to 70°C)		
				AT93C66-10TC-2.5	832 8T			
		10.0	500	AT93C66-10PI-2.5	8P3	Industrial		
		10.0	500	AT93C66-10SI-2.5	8S1	(-40°C to 85°C)		
				AT93C66W-10SI-2.5	8S2	(-+0 0 10 03 0)		
				AT93C66-10TI-2.5	8T			
10	80	0.1	250	AT93C66-10PC-1.8	8P3	Commercial		
		_		AT93C66-10SC-1.8	8S1	(0°C to 70°C)		
				AT93C66W-10SC-1.8	8S2	, , , , , , , , , , , , , , , , , , ,		
				AT93C66-10TC-1.8	8T			
		0.1	250	AT93C66-10PI-1.8	8P3	Industrial		
				AT93C66-10SI-1.8	8S1	(-40°C to 85°C)		
				AT93C66W-10SI-1.8	8S2			
				AT93C66-10TI-1.8	8T			
				Package Type				
8P3	8-lead, 0.30	8-lead, 0.300" Wide, Plastic Dual Inline Package (PDIP)						
8S1	8-lead, 0.15	8-lead, 0.150" Wide, Plastic Gull Wing Small Outline (JEDEC SOIC)						
8S2	8-lead, 0.20	8-lead, 0.200" Wide, Plastic Gull Wing Small Outline (EIAJ SOIC)						
8T	8-lead, 0.17	0" Wide, Thin S	Shrink Small O	utline Package (TSSOP)				
				Options				
Blank	Standard O	peration (4.5V t	o 5.5V)					
-2.7	Low Voltage	e (2.7V to 5.5V)						
-2.5	Low Voltage	e (2.5V to 5.5V)						
-1.8	Low Voltage	e (1.8V to 5.5V)						





Packaging Information





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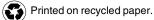
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