

## Features

- Fast Read Access Time - 100 ns
- Low Power CMOS Operation
  - 100  $\mu$ A max. Standby
  - 25 mA max. Active at 5 MHz (AT27C010L)
  - 40 mA max. Active at 5 MHz (AT27C010)
- Wide Selection of JEDEC Standard Packages Including OTP
  - 32-Lead 600-mil Cerdip and OTP Plastic DIP, SOIC or TSOP
  - 32-Pad LCC, 32-Lead JLCC and OTP PLCC
- 5 V  $\pm$  10% Supply
- High Reliability CMOS Technology
  - 2000 V ESD Protection
  - 200 mA Latchup Immunity
- Rapid Programming - 100  $\mu$ s/byte (typical)
- Two-line Control
- CMOS and TTL Compatible Inputs and Outputs
- Integrated Product Identification Code
- Full Military, Commercial and Industrial Temperature Ranges

**1 Megabit  
(128K x 8)  
UV  
Erasable  
CMOS  
EPROM**

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## Description

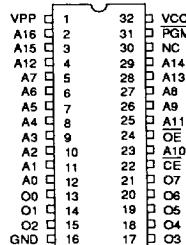
The AT27C010/L chip family is a low-power, high performance 1,048,576 bit Ultraviolet Erasable and Electrically Programmable Read Only Memory (EPROM) organized as 128K x 8 bits. They require only one 5 V power supply in normal read mode operation. Any byte can be accessed in less than 100 ns, eliminating the need for speed reducing WAIT states on high performance microprocessor systems.

Two power versions are offered. In read mode, the AT27C010 typically consumes 25 mA while the AT27C010L takes only 8 mA. Standby mode supply current for both parts is typically less than 10  $\mu$ A.

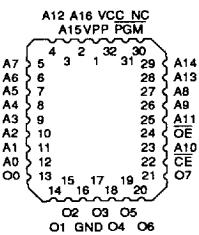
CDIP, PDIP, SOIC Top

## Pin Configurations

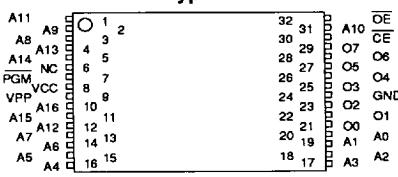
Pin Name	Function
A0-A16	Addresses
O0-O7	Outputs
CE	Chip Enable
OE	Output Enable
PGM	Program Strobe
NC	No Connect



LCC, JLCC, PLCC Top



TSOP Top View  
Type 1



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## Description (Continued)

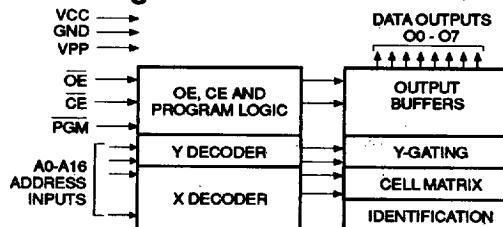
The AT27C010/L comes in a choice of industry standard JEDEC-approved packages including; 32-pin ceramic DIP; 32-pad ceramic leadless chip carrier (LCC); 32-lead ceramic J-leaded chip carrier (JLCC); 32-lead one time programmable (OTP) plastic J-leaded chip carrier (PLCC); 32-pin OTP plastic gull wing small outline IC (SOIC); and 32-pin OTP thin small outline package (TSOP). All devices feature two line control ( $\overline{CE}$ ,  $\overline{OE}$ ) to give designers the flexibility to prevent bus contention.

With high density 128K byte storage capability, the AT27C010/L allow firmware to be stored reliably and to be accessed by the system without the delays of mass storage media. Atmel's 27C010/L have additional features to ensure high quality and efficient production use. The Rapid Programming Algorithm reduces the time required to program the part and guarantees reliable programming. Programming time is typically only 100  $\mu$ s/byte. The Integrated Product Identification Code electronically identifies the device and manufacturer. This feature is used by industry standard programming equipment to select the proper programming algorithms and voltages.

## Erasure Characteristics

The entire memory array of the AT27C010/L is erased (all outputs read as  $V_{DD}$ ) after exposure to ultraviolet light at a wavelength of 2537Å. Complete erasure is assured after a minimum of 20 minutes exposure using 12,000  $\mu$ W/cm<sup>2</sup> intensity lamps spaced one inch away from the chip. Minimum erase time for lamps at other intensity ratings can be calculated from the minimum integrated erasure dose of 15 W·sec/cm<sup>2</sup>. To prevent unintentional erasure, an opaque label is recommended to cover the clear window on any UV erasable EPROM which will be subjected to continuous fluorescent indoor lighting or sunlight.

## Block Diagram



## Absolute Maximum Ratings\*

Temperature Under Bias .....	-55°C to +125°C
Storage Temperature.....	-65°C to +150°C
Voltage on Any Pin with Respect to Ground.....	-2.0 V to +7.0 V <sup>(1)</sup>
Voltage on A9 with Respect to Ground .....	-2.0 V to +14.0 V <sup>(1)</sup>
VPP Supply Voltage with Respect to Ground.....	-2.0 V to +14.0 V <sup>(1)</sup>
Integrated UV Erase Dose.....	7258 W·sec/cm <sup>2</sup>

\*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.

### Notes:

1. Minimum voltage is -0.6 V dc which may undershoot to -2.0 V for pulses of less than 20 ns. Maximum output pin voltage is  $V_{CC} + 0.75$  V dc which may overshoot to +7.0 V for pulses of less than 20 ns.

## Operating Modes

Mode \ Pin	CE	OE	PGM	Ai	VPP	Vcc	Outputs	
Read	V <sub>IL</sub>	V <sub>IL</sub>	X <sup>(1)</sup>	Ai	X	V <sub>CC</sub>	D <sub>OUT</sub>	
Output Disable	X	V <sub>IH</sub>	X	X	X	V <sub>CC</sub>	High Z	
Standby	V <sub>IH</sub>	X	X	X	X	V <sub>CC</sub>	High Z	
Fast Program <sup>(2)</sup>	V <sub>IL</sub>	V <sub>IH</sub>	V <sub>IL</sub>	Ai	V <sub>PP</sub>	V <sub>CC</sub>	D <sub>IN</sub>	
PGM Verify	V <sub>IL</sub>	V <sub>IL</sub>	V <sub>IH</sub>	Ai	V <sub>PP</sub>	V <sub>CC</sub>	D <sub>OUT</sub>	
PGM Inhibit	V <sub>IH</sub>	X	X	X	V <sub>PP</sub>	V <sub>CC</sub>	High Z	
Product Identification <sup>(4)</sup>	V <sub>IL</sub>	V <sub>IL</sub>	X	A9=V <sub>H</sub> <sup>(3)</sup> A0=V <sub>IL</sub> or V <sub>IL</sub> A1-A16=V <sub>IL</sub>		X	V <sub>CC</sub>	Identification Code

Notes: 1. X can be V<sub>IL</sub> or V<sub>IH</sub>.

2. Refer to Programming characteristics.

3. V<sub>H</sub> = 12.0 ± 0.5 V.

4. Two identifier bytes may be selected. All Ai inputs are held low (V<sub>IL</sub>), except A9 which is set to V<sub>H</sub> and A0 which is toggled low (V<sub>IL</sub>) to select the Manufacturer's Identification byte and high (V<sub>IH</sub>) to select the Device Code byte.

**D.C. and A.C. Operating Conditions for Read Operation**

AT27C010 / AT27C010L						
		-10	-12	-15	-20	-25
Operating Temperature (Case)	Com.	0°C - 70°C	0°C - 70°C	0°C - 70°C	0°C - 70°C	0°C - 70°C
	Ind.		-40°C - 85°C	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C
	Mil.		-55°C - 125°C	-55°C - 125°C	-55°C - 125°C	-55°C - 125°C
Vcc Power Supply		5 V ± 5%	5 V ± 10%			

**D.C. and Operating Characteristics for Read Operation**

Symbol	Parameter	Condition		Min	Max	Units
I <sub>L1</sub>	Input Load Current	V <sub>IN</sub> = -0.1 V to V <sub>CC</sub> +1 V		5	μA	
I <sub>LO</sub>	Output Leakage Current	V <sub>OUT</sub> = -0.1 V to V <sub>CC</sub> +0.1 V		10	μA	
I <sub>PP1</sub> (2)	V <sub>PP</sub> (1) Read/Standby Current	V <sub>PP</sub> = 3.8 to V <sub>CC</sub> +0.3 V		10	μA	
I <sub>SB</sub>	V <sub>CC</sub> (1) Standby Current	I <sub>SB1</sub> (CMOS), CĒ = V <sub>CC</sub> -0.3 to V <sub>CC</sub> +1.0 V		100	μA	
		I <sub>SB2</sub> (TTL), CĒ = 2.0 to V <sub>CC</sub> +1.0 V		1	mA	
I <sub>CC</sub>	V <sub>CC</sub> Active Current	f = 5 MHz, I <sub>OUT</sub> = 0 mA, CĒ = V <sub>IL</sub>	AT27C010L	Com.	25	mA
				Ind., Mil.	30	mA
			AT27C010	Com.	40	mA
				Ind., Mil.	50	mA
V <sub>IL</sub>	Input Low Voltage			-0.6	0.8	V
V <sub>IH</sub>	Input High Voltage			2.0	V <sub>CC</sub> +0.75	V
V <sub>OL</sub>	Output Low Voltage	I <sub>OL</sub> = 2.1 mA		.45		V
V <sub>OH</sub>	Output High Voltage	I <sub>OH</sub> = -100 μA		V <sub>CC</sub> -0.3		V
		I <sub>OH</sub> = -2.5 mA		3.5		V
		I <sub>OH</sub> = -400 μA		2.4		V

Notes: 1. V<sub>CC</sub> must be applied simultaneously or before V<sub>PP</sub>, and removed simultaneously or after V<sub>PP</sub>.

2. V<sub>PP</sub> may be connected directly to V<sub>CC</sub>, except during programming. The supply current would then be the sum of I<sub>CC</sub> and I<sub>PP</sub>.

**A.C. Characteristics for Read Operation**

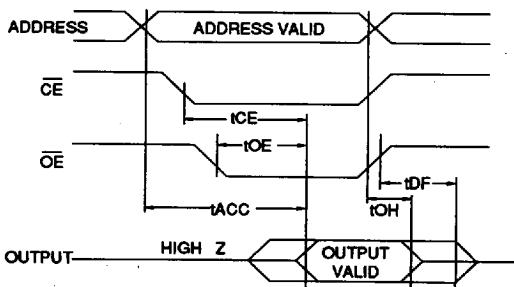
Symbol	Parameter	Condition	AT27C010 / AT27C010L					Units	
			Min	Max	Min	Max	Min		
t <sub>ACC</sub> (3)	Address to Output Delay	CĒ = OĒ = V <sub>IL</sub>	Com.	100	120	150	200	250	ns
			Ind., Mil.		120	150	200	250	ns
t <sub>CCE</sub> (2)	CĒ to Output Delay	OĒ = V <sub>IL</sub>		100	120	150	200	250	ns
t <sub>OE</sub> (2,3)	OĒ to Output Delay	CĒ = V <sub>IL</sub>		35	40	40	70	100	ns
t <sub>DFF</sub> (4,5)	OĒ High to Output Float	CĒ = V <sub>IL</sub>		30	35	40	55	60	ns
t <sub>OH</sub>	Output Hold from Address, CĒ or OĒ, whichever occurred first	CĒ = OĒ = V <sub>IL</sub>		0	0	0	0	0	ns

Notes: 2, 3, 4, 5. - see AC Waveforms for Read Operation.



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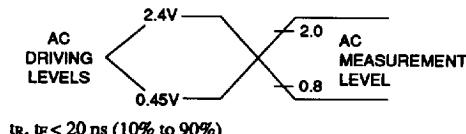
## A.C. Waveforms for Read Operation<sup>(1)</sup>



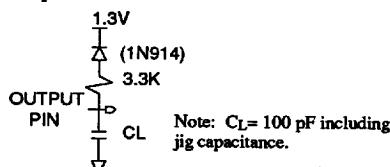
### Notes:

1. Timing measurement references are 0.8 V and 2.0 V. Input AC driving levels are 0.45 V and 2.4 V, unless otherwise specified.
2. OE may be delayed up to tCE-toE after the falling edge of CE without impact on tACC.
3. OE may be delayed up to tACC-toE after the address is valid without impact on tACC.
4. This parameter is only sampled and is not 100% tested.
5. Output float is defined as the point when data is no longer driven.

## Input Test Waveforms and Measurement Levels



## Output Test Load

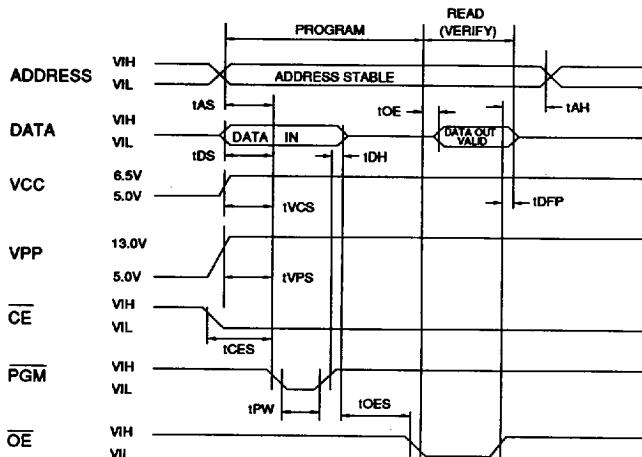


## Pin Capacitance (f = 1 MHz, T = 25°C)<sup>(1)</sup>

	Typ	Max	Units	Conditions
C <sub>IN</sub>	4	8	pF	V <sub>IN</sub> = 0 V
C <sub>OUT</sub>	8	12	pF	V <sub>OUT</sub> = 0 V

Notes: 1. Typical values for nominal supply voltage. This parameter is only sampled and is not 100% tested.

## Programming Waveforms<sup>(1)</sup>



### Notes:

1. The Input Timing Reference is 0.8 V for V<sub>IL</sub> and 2.0 V for V<sub>IH</sub>.
2. t<sub>OE</sub> and t<sub>IDFP</sub> are characteristics of the device but must be accommodated by the programmer.
3. When programming the AT27C010/L a 0.1-μF capacitor is required across V<sub>PP</sub> and ground to suppress spurious voltage transients.

**D.C. Programming Characteristics**

TA = 25 ± 5°C, VCC = 6.5 ± 0.25 V, VPP = 13.0 ± 0.25 V

Symbol	Parameter	Test Conditions		Limits	
		Min	Max	Units	
I <sub>L</sub>	Input Load Current	V <sub>IN</sub> =V <sub>IL</sub> , V <sub>IH</sub>	10	μA	
V <sub>IL</sub>	Input Low Level	(All Inputs)	-0.6	0.8	V
V <sub>IH</sub>	Input High Level		2.0	V <sub>CC+1</sub>	V
V <sub>OL</sub>	Output Low Volt.	I <sub>OL</sub> =2.1 mA	.45	V	
V <sub>OH</sub>	Output High Volt.	I <sub>OH</sub> =400 μA	2.4	V	
I <sub>CC2</sub>	V <sub>CC</sub> Supply Current (Program and Verify)		40	mA	
I <sub>PP2</sub>	V <sub>PP</sub> Supply Current	CE=PGM=V <sub>IL</sub>	20	mA	
V <sub>ID</sub>	A9 Product Identification Voltage		11.5	12.5	V

**A.C. Programming Characteristics**

TA = 25 ± 5°C, VCC = 6.5 ± 0.25 V, VPP = 13.0 ± 0.25 V

Symbol	Parameter	Test Conditions*		Limits	
		(see Note 1)	Min	Max	Units
t <sub>AS</sub>	Address Setup Time		2		μs
t <sub>CES</sub>	CE Setup Time		2		μs
t <sub>OE</sub>	OE Setup Time		2		μs
t <sub>DS</sub>	Data Setup Time		2		μs
t <sub>AH</sub>	Address Hold Time		0		μs
t <sub>DH</sub>	Data Hold Time		2		μs
t <sub>DFF</sub>	OE High to Output Float Delay (Note 2)		0	130	ns
t <sub>VPS</sub>	V <sub>PP</sub> Setup Time		2		μs
t <sub>VCS</sub>	V <sub>CC</sub> Setup Time		2		μs
t <sub>PW</sub>	PGM Program Pulse Width (Note 3)		95	105	μs
t <sub>OE</sub>	Data Valid from OE			150	ns

## \*A.C. Conditions of Test:

- Input Rise and Fall Times (10% to 90%) ..... 20 ns
- Input Pulse Levels ..... 0.45 V to 2.4 V
- Input Timing Reference Level ..... 0.8 V to 2.0 V
- Output Timing Reference Level ..... 0.8 V to 2.0 V

## Notes:

1. V<sub>CC</sub> must be applied simultaneously or before V<sub>PP</sub> and removed simultaneously or after V<sub>PP</sub>.
2. This parameter is only sampled and is not 100% tested.  
Output Float is defined as the point where data is no longer driven — see timing diagram.
3. Program Pulse width tolerance is 100 μsec ± 5%.

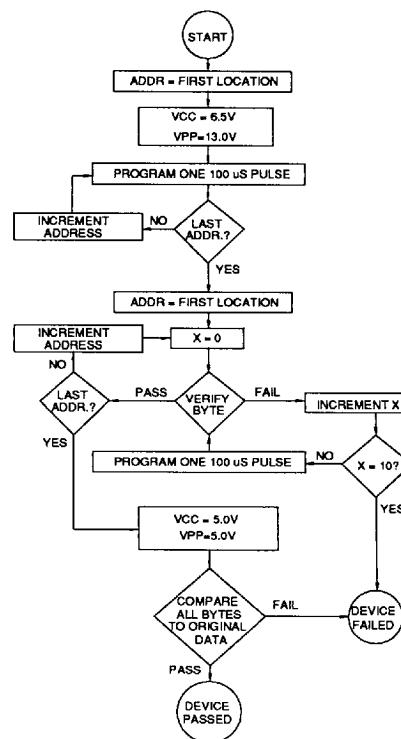
**Atmel's 27C010/L Integrated Product Identification Code**

Codes	Plns								Hex Data
	A0	O7	O6	O5	O4	O3	O2	O1	
Manufacturer	0	0	0	0	1	1	1	0	1E
Device Type	1	0	0	0	0	0	1	0	05

**Rapid Programming Algorithm**

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A 100 μs PGM pulse width is used to program. The address is set to the first location. V<sub>CC</sub> is raised to 6.5 V and V<sub>PP</sub> is raised to 13.0 V. Each address is first programmed with one 100 μs PGM pulse without verification. Then a verification / reprogramming loop is executed for each address. In the event a byte fails to pass verification, up to 10 successive 100 μs pulses are applied with a verification after each pulse. If the byte fails to verify after 10 pulses have been applied, the part is considered failed. After the byte verifies properly, the next address is selected until all have been checked. V<sub>PP</sub> is then lowered to 5.0 V and V<sub>CC</sub> to 5.0 V. All bytes are read again and compared with the original data to determine if the device passes or fails.



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## Ordering Information

$t_{ACC}$ (ns)	I <sub>CC</sub> (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
100	40	0.1	AT27C010-10DC AT27C010-10KC AT27C010-10LC	32DW6 32KW 32LW	Commercial (0°C to 70°C)
120	40	0.1	AT27C010-12DC AT27C010-12JC AT27C010-12KC AT27C010-12LC AT27C010-12PC AT27C010-12RC	32DW6 32J 32KW 32LW 32P6 32R	Commercial (0°C to 70°C)
120	50	0.1	AT27C010-12DI AT27C010-12JI AT27C010-12KI AT27C010-12LI AT27C010-12PI AT27C010-12RI	32DW6 32J 32KW 32LW 32P6 32R	Industrial (-40°C to 85°C)
			AT27C010-12DM AT27C010-12KM AT27C010-12LM	32DW6 32KW 32LW	Military (-55°C to 125°C)
			AT27C010-12DM/883 AT27C010-12KM/883 AT27C010-12LM/883	32DW6 32KW 32LW	Military/883C Class B, Fully Compliant (-55°C to 125°C)
150	40	0.1	AT27C010-15DC AT27C010-15JC AT27C010-15KC AT27C010-15LC AT27C010-15PC AT27C010-15RC	32DW6 32J 32KW 32LW 32P6 32R	Commercial (0°C to 70°C)
150	50	0.1	AT27C010-15DI AT27C010-15JI AT27C010-15KI AT27C010-15LI AT27C010-15PI AT27C010-15RI	32DW6 32J 32KW 32LW 32P6 32R	Industrial (-40°C to 85°C)
			AT27C010-15DM AT27C010-15KM AT27C010-15LM	32DW6 32KW 32LW	Military (-55°C to 125°C)
			AT27C010-15DM/883 AT27C010-15KM/883 AT27C010-15LM/883	32DW6 32KW 32LW	Military/883C Class B, Fully Compliant (-55°C to 125°C)
200	40	0.1	AT27C010-20DC AT27C010-20JC AT27C010-20KC AT27C010-20LC AT27C010-20PC AT27C010-20RC	32DW6 32J 32KW 32LW 32P6 32R	Commercial (0°C to 70°C)

## Ordering Information

t <sub>ACC</sub> (ns)	I <sub>CC</sub> (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
200	50	0.1	AT27C010-20DI	32DW6	Industrial (-40°C to 85°C)
			AT27C010-20JI	32J	
			AT27C010-20KI	32KW	
	40	0.1	AT27C010-20LI	32LW	Military (-55°C to 125°C)
			AT27C010-20PI	32P6	
			AT27C010-20RI	32R	
	50	0.1	AT27C010-20DM	32DW6	Military (-55°C to 125°C)
			AT27C010-20KM	32KW	
			AT27C010-20LM	32LW	
250	40	0.1	AT27C010-20DM/883	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
			AT27C010-20KM/883	32KW	
			AT27C010-20LM/883	32LW	
			AT27C010-25DC	32DW6	Commercial (0°C to 70°C)
			AT27C010-25JC	32J	
	50	0.1	AT27C010-25KC	32KW	Industrial (-40°C to 85°C)
			AT27C010-25LC	32LW	
			AT27C010-25PC	32P6	
			AT27C010-25DI	32DW6	
			AT27C010-25JI	32J	
250	50	0.1	AT27C010-25KI	32KW	Military (-55°C to 125°C)
			AT27C010-25LI	32LW	
			AT27C010-25PI	32P6	
			AT27C010-25DM	32DW6	
			AT27C010-25KM	32KW	
	120	0.1	AT27C010-25LM	32LW	Military/883C Class B, Fully Compliant (-55°C to 125°C)
			AT27C010-25DM/883	32DW6	
			AT27C010-25KM/883	32KW	
			AT27C010-25LM/883	32LW	
			5962-89614 06 M XX	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
150	50	0.1	5962-89614 06 M YX	32LW	
			5962-89614 05 M XX	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
			5962-89614 05 M YX	32LW	
			5962-89614 04 M XX	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
			5962-89614 04 M YX	32LW	
	200	0.1	5962-89614 03 M XX	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
			5962-89614 03 M YX	32LW	
			5962-89614 02 M XX	32DW6	
			5962-89614 02 M YX	32LW	
			5962-89614 01 M XX	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)
300	50	0.1	5962-89614 01 M YX	32LW	



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## Ordering Information

t <sub>ACC</sub> (ns)	I <sub>CC</sub> (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
120	40	0.1	AT27C010-12TC	32T	Commercial (0° to 70°C)
150	40	0.1	AT27C010-15TC	32T	Commercial (0° to 70°C)

### Package Type

32DW6	32 Lead, 0.600" Wide, Windowed, Ceramic Dual Inline Package (Cerdip)
32J	32 Lead, Plastic J-Leaded Chip Carrier OTP (PLCC)
32KW	32 Lead, Windowed, Ceramic J-Leaded Chip Carrier (JLCC)
32LW	32 Pad, Windowed, Ceramic Leadless Chip Carrier (LCC)
32R	32 Lead, 0.450" Wide, Plastic Gull Wing Small Outline OTP (SOIC)
32T	32 Lead, Plastic Thin Small Outline Package OTP (TSOP)

## Ordering Information

t <sub>ACC</sub> (ns)	I <sub>cc</sub> (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
100	40	0.1	AT27C010L-10DC AT27C010L-10KC AT27C010L-10LC	32DW6 32KW 32LW	Commercial (0°C to 70°C)
120	25	0.1	AT27C010L-12DC AT27C010L-12JC AT27C010L-12KC AT27C010L-12LC AT27C010L-12PC AT27C010L-12RC	32DW6 32J 32KW 32LW 32P6 32R	Commercial (0°C to 70°C)
120	30	0.1	AT27C010L-12DI AT27C010L-12JI AT27C010L-12KI AT27C010L-12LI AT27C010L-12PI AT27C010L-12RI	32DW6 32J 32KW 32LW 32P6 32R	Industrial (-40°C to 85°C)
			AT27C010L-12DM AT27C010L-12KM AT27C010L-12LM	32DW6 32KW 32LW	Military (-55°C to 125°C)
			AT27C010L-12DM/883 AT27C010L-12KM/883 AT27C010L-12LM/883	32DW6 32KW 32LW	Military/883C Class B, Fully Compliant (-55°C to 125°C)
150	25	0.1	AT27C010L-15DC AT27C010L-15JC AT27C010L-15LC AT27C010L-15KC AT27C010L-15PC AT27C010L-15RC	32DW6 32J 32LW 32KW 32P6 32R	Commercial (0°C to 70°C)
150	30	0.1	AT27C010L-15DI AT27C010L-15JI AT27C010L-15KI AT27C010L-15LI AT27C010L-15PI AT27C010L-15RI	32DW6 32J 32KW 32LW 32P6 32R	Industrial (-40°C to 85°C)
			AT27C010L-15DM AT27C010L-15KM AT27C010L-15LM	32DW6 32KW 32LW	Military (-55°C to 125°C)
			AT27C010L-15DM/883 AT27C010L-15KM/883 AT27C010L-15LM/883 AT27C010L-17LI AT27C010L-17PI AT27C010L-17SI	32DW6 32KW 32LW 32LW 32P6 32S	Military/883C Class B, Fully Compliant (-55°C to 125)
200	25	0.1	AT27C010L-20DC AT27C010L-20JC AT27C010L-20KC AT27C010L-20LC AT27C010L-20PC AT27C010L-20RC	32DW6 32J 32KW 32LW 32P6 32R	Commercial (0°C to 70°C)



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**Ordering Information**

t <sub>ACC</sub> (ns)	I <sub>CC</sub> (mA)		Ordering Code	Package	Operation Range		
	Active	Standby					
200	30	0.1	AT27C010L-20DI	32DW6	Industrial (-40°C to 85°C)		
			AT27C010L-20JI	32J			
			AT27C010L-20KI	32KW			
	25	0.1	AT27C010L-20LI	32LW	Military (-55°C to 125°C)		
			AT27C010L-20PI	32P6			
			AT27C010L-20RI	32R			
	30	0.1	AT27C010L-20DM	32DW6	Military (-55°C to 125°C)		
			AT27C010L-20KM	32KW			
			AT27C010L-20LM	32LW			
250	25	0.1	AT27C010L-20DM/883	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)		
			AT27C010L-20KM/883	32KW			
			AT27C010L-20LM/883	32LW			
			AT27C010L-25DC	32DW6	Commercial (0°C to 70°C)		
			AT27C010L-25JC	32J			
	30	0.1	AT27C010L-25KC	32KW			
			AT27C010L-25LC	32LW			
			AT27C010L-25PC	32P6			
			AT27C010L-25DI	32DW6	Industrial (-40°C to 85°C)		
250			AT27C010L-25JI	32J			
			AT27C010L-25KI	32KW			
			AT27C010L-25LI	32LW			
30	0.1	AT27C010L-25PI	32P6	Military (-55°C to 125°C)			
		AT27C010L-25DM	32DW6				
		AT27C010L-25KM	32KW				
		AT27C010L-25LM	32LW				
		AT27C010L-25DM/883	32DW6	Military/883C Class B, Fully Compliant (-55°C to 125°C)			
		AT27C010L-25KM/883	32KW				
		AT27C010L-25LM/883	32LW				

t <sub>ACC</sub> (ns)	I <sub>CC</sub> (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
120	25	0.1	AT27C010L-12TC	32T	Commercial (0° to 70°C)
150	25	0.1	AT27C010L-15TC	32T	Commercial (0° to 70°C)

Package Type	
<b>32DW6</b>	32 Lead, 0.600" Wide, Windowed, Ceramic Dual Inline Package (Cerdip)
<b>32J</b>	32 Lead, Plastic J-Leaded Chip Carrier OTP (PLCC)
<b>32KW</b>	32 Lead, Windowed, Ceramic J-Leaded Chip Carrier (JLCC)
<b>32LW</b>	32 Pad, Windowed, Ceramic Leadless Chip Carrier (LCC)
<b>32P6</b>	32 Lead, 0.600" Wide, Plastic Dual Inline Package OTP (PDIP)
<b>32R</b>	32 Lead, 0.450" Wide, Plastic Gull Wing Small Outline OTP (SOIC)
<b>32T</b>	32 Lead, Plastic Thin Small Outline Package OTP (TSOP)



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