

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

1-Kb, 2-Kb, 4-Kb, 8-Kb and 16-Kb I²C CMOS Serial EEPROM

Description

The CAT24C01/02/04/08/16 are 1-Kb, 2-Kb, 4-Kb, 8-Kb and 16-Kb respectively CMOS Serial EEPROM devices organized internally as 8/16/32/64 and 128 pages respectively of 16 bytes each. All devices support both the Standard (100 kHz) as well as Fast (400 kHz) I²C protocol.

Data is written by providing a starting address, then loading 1 to 16 contiguous bytes into a Page Write Buffer, and then writing all data to non-volatile memory in one internal write cycle. Data is read by providing a starting address and then shifting out data serially while automatically incrementing the internal address count.

External address pins make it possible to address up to eight CAT24C01 or CAT24C02, four CAT24C04, two CAT24C08 and one CAT24C16 device on the same bus.

Features

- Supports Standard and Fast I²C Protocol
- 1.7 V to 5.5 V Supply Voltage Range
- 16-Byte Page Write Buffer
- Hardware Write Protection for Entire Memory
- Schmitt Triggers and Noise Suppression Filters on I²C Bus Inputs (SCL and SDA)
- Low power CMOS Technology
- More than 1,000,000 Program/Erase Cycles
- 100 Year Data Retention
- Industrial and Extended Temperature Range
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant



ON Semiconductor®

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TDFN-8*
VP2 SUFFIX
CASE 511AK



UDFN8-EP
HU4 SUFFIX
CASE 517AZ



MSOP-8
Z SUFFIX
CASE 846AD



TSOT-23
TD SUFFIX
CASE 419AE




TSSOP-8
Y SUFFIX
CASE 948AL




WLCSP-4***
C4A SUFFIX
CASE 567DC



SOIC-8
W SUFFIX
CASE 751BD



WLCSP-4**
C4U SUFFIX
CASE 567NX



PDIP-8
L SUFFIX
CASE 646AA



WLCSP-5***
C5A SUFFIX
CASE 567DD



US8**
US SUFFIX
CASE 493

* The TDFN (VP2) package is not recommended for new designs.

** Preliminary, please contact factory for availability.

*** WLCSP are available for the CAT24C04, CAT24C08 and CAT24C16 only.

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 21 of this data sheet.

This document contains information on some products that are still under development. ON Semiconductor reserves the right to change or discontinue these products without notice.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PIN CONFIGURATIONS AND MARKING INFORMATION

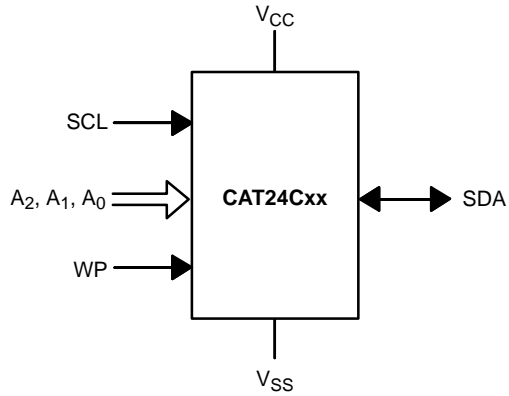
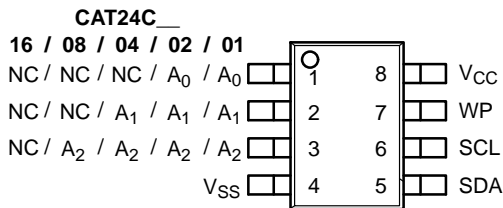


Figure 1. Functional Symbol

Table 1. PIN FUNCTION

Pin Name†	Function
A0, A1, A2	Device Address Input
SDA	Serial Data Input/Output
SCL	Serial Clock Input
WP	Write Protect Input
V _{CC}	Power Supply
V _{SS}	Ground
NC	No Connect

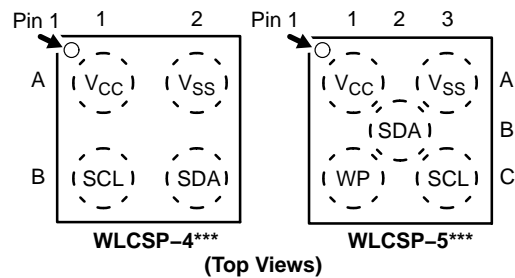
† The exposed pad for the TDFN/UDFN packages can be left floating or connected to Ground.



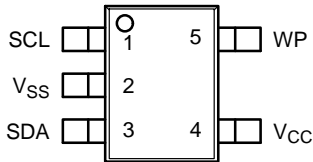
PDIP (L), SOIC (W), TSSOP (Y), MSOP (Z), US (US)**,
 TDFN, (VP2)*, UDFN-EP (HU4) (Top View)

* The TDFN (VP2) package is not recommended for new designs.

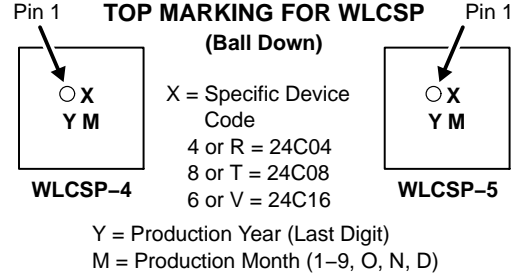
** Preliminary, please contact factory for availability.



*** WLCSP are available for the CAT24C04,
 CAT24C08 and CAT24C16 only.



TSOT-23 (TD) (Top View)



CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

Table 2. ABSOLUTE MAXIMUM RATINGS

Parameters	Ratings	Units
Storage Temperature	-65 to +150	°C
Voltage on any pin with respect to Ground (Note 1)	-0.5 to +6.5	V

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. During input transitions, voltage undershoot on any pin should not exceed -1 V for more than 20 ns. Voltage overshoot on pins A₀, A₁, A₂ and WP should not exceed V_{CC} + 1 V for more than 20 ns, while voltage on the I²C bus pins, SCL and SDA, should not exceed the absolute maximum ratings, irrespective of V_{CC}.

Table 3. RELIABILITY CHARACTERISTICS (Note 2)

Symbol	Parameter	Min	Units
N _{END} (Note 3)	Endurance	1,000,000	Program / Erase Cycles
T _{DR}	Data Retention	100	Years

2. These parameters are tested initially and after a design or process change that affects the parameter according to appropriate AEC-Q100 and JEDEC test methods.
3. Page Mode, V_{CC} = 5 V, 25°C.

Table 4. D.C. OPERATING CHARACTERISTICS

(V_{CC} = 1.8 V to 5.5 V, T_A = -40°C to +125°C and V_{CC} = 1.7 V to 5.5 V, T_A = -40°C to +85°C, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min	Max	Units
I _{CCR}	Read Current	Read, f _{SCL} = 400 kHz		1	mA
I _{CCW}	Write Current	Write, f _{SCL} = 400 kHz		2	mA
I _{SB}	Standby Current	All I/O Pins at GND or V _{CC}	T _A = -40°C to +85°C V _{CC} ≤ 3.3 V	1	μA
			T _A = -40°C to +85°C V _{CC} > 3.3 V	3	
			T _A = -40°C to +125°C	5	
I _L	I/O Pin Leakage	Pin at GND or V _{CC}		2	μA
V _{IL}	Input Low Voltage		-0.5	0.3 x V _{CC}	V
V _{IH}	Input High Voltage	A ₀ , A ₁ , A ₂ and WP	0.7 x V _{CC}	V _{CC} + 0.5	V
		SCL and SDA	0.7 x V _{CC}	5.5	
V _{OL}	Output Low Voltage	V _{CC} > 2.5 V, I _{OL} = 3 mA		0.4	
		V _{CC} < 2.5 V, I _{OL} = 1 mA		0.2	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

Table 5. PIN IMPEDANCE CHARACTERISTICS

($V_{CC} = 1.8\text{ V to }5.5\text{ V}$, $T_A = -40^\circ\text{C to }+125^\circ\text{C}$ and $V_{CC} = 1.7\text{ V to }5.5\text{ V}$, $T_A = -40^\circ\text{C to }+85^\circ\text{C}$, unless otherwise specified.)

Symbol	Parameter	Conditions	Max	Units
C_{IN} (Note 4)	SDA Pin Capacitance	$V_{IN} = 0\text{ V}$, $f = 1.0\text{ MHz}$, $V_{CC} = 5.0\text{ V}$	8	pF
	Other Pins		6	pF
I_{WP} (Note 5)	WP Input Current	$V_{IN} < V_{IH}$, $V_{CC} = 5.5\text{ V}$	130	μA
		$V_{IN} < V_{IH}$, $V_{CC} = 3.3\text{ V}$	120	
		$V_{IN} < V_{IH}$, $V_{CC} = 1.7\text{ V}$	80	
		$V_{IN} > V_{IH}$	2	
I_A (Note 5)	Address Input Current (A0, A1, A2) Product Rev H: CAT24C02 Product Rev K: CAT24C04, CAT24C08, CAT24C16	$V_{IN} < V_{IH}$, $V_{CC} = 5.5\text{ V}$	50	μA
		$V_{IN} < V_{IH}$, $V_{CC} = 3.3\text{ V}$	35	
		$V_{IN} < V_{IH}$, $V_{CC} = 1.7\text{ V}$	25	
		$V_{IN} > V_{IH}$	2	

- These parameters are tested initially and after a design or process change that affects the parameter according to appropriate AEC-Q100 and JEDEC test methods.
- When not driven, the WP, A0, A1 and A2 pins are pulled down to GND internally. For improved noise immunity, the internal pull-down is relatively strong; therefore the external driver must be able to supply the pull-down current when attempting to drive the input HIGH. To conserve power, as the input level exceeds the trip point of the CMOS input buffer ($\sim 0.5 \times V_{CC}$), the strong pull-down reverts to a weak current source.

Table 6. A.C. CHARACTERISTICS

(Note 6) ($V_{CC} = 1.8\text{ V to }5.5\text{ V}$, $T_A = -40^\circ\text{C to }+125^\circ\text{C}$ and $V_{CC} = 1.7\text{ V to }5.5\text{ V}$, $T_A = -40^\circ\text{C to }+85^\circ\text{C}$, unless otherwise specified.)

Symbol	Parameter	Standard		Fast		Units
		Min	Max	Min	Max	
F_{SCL}	Clock Frequency		100		400	kHz
$t_{HD:STA}$	START Condition Hold Time	4		0.6		μs
t_{LOW}	Low Period of SCL Clock	4.7		1.3		μs
t_{HIGH}	High Period of SCL Clock	4		0.6		μs
$t_{SU:STA}$	START Condition Setup Time	4.7		0.6		μs
$t_{HD:DAT}$	Data In Hold Time	0		0		μs
$t_{SU:DAT}$	Data In Setup Time	250		100		ns
t_R	SDA and SCL Rise Time		1000		300	ns
t_F (Note 6)	SDA and SCL Fall Time		300		300	ns
$t_{SU:STO}$	STOP Condition Setup Time	4		0.6		μs
t_{BUF}	Bus Free Time Between STOP and START	4.7		1.3		μs
t_{AA}	SCL Low to Data Out Valid		3.5		0.9	μs
t_{DH}	Data Out Hold Time	100		100		ns
T_i (Note 6)	Noise Pulse Filtered at SCL and SDA Inputs		100		100	ns
$t_{SU:WP}$	WP Setup Time	0		0		μs
$t_{HD:WP}$	WP Hold Time	2.5		2.5		μs
t_{WR}	Write Cycle Time		5		5	ms
t_{PU} (Notes 7, 8)	Power-up to Ready Mode		1		1	ms

- Test conditions according to "AC Test Conditions" table.
- Tested initially and after a design or process change that affects this parameter.
- t_{PU} is the delay between the time V_{CC} is stable and the device is ready to accept commands.

Table 7. A.C. TEST CONDITIONS

Input Drive Levels	0.2 x V _{CC} to 0.8 x V _{CC}
Input Rise and Fall Time	≤ 50 ns
Input Reference Levels	0.3 x V _{CC} , 0.7 x V _{CC}
Output Reference Level	0.5 x V _{CC}
Output Test Load	Current Source I _{OL} = 3 mA (V _{CC} ≥ 2.5 V); I _{OL} = 1 mA (V _{CC} < 2.5 V); C _L = 100 pF

Power-On Reset (POR)

Each CAT24Cxx* incorporates Power-On Reset (POR) circuitry which protects the internal logic against powering up in the wrong state.

A CAT24Cxx device will power up into Standby mode after V_{CC} exceeds the POR trigger level and will power down into Reset mode when V_{CC} drops below the POR trigger level. This bi-directional POR feature protects the device against ‘brown-out’ failure following a temporary loss of power.

**For common features, the CAT24C01/02/04/08/16 will be referred to as CAT24Cxx.*

Pin Description

SCL: The Serial Clock input pin accepts the Serial Clock generated by the Master.

SDA: The Serial Data I/O pin receives input data and transmits data stored in EEPROM. In transmit mode, this pin is open drain. Data is acquired on the positive edge, and is delivered on the negative edge of SCL.

A0, A1 and A2: The Address inputs set the device address when cascading multiple devices. When not driven, these pins are pulled LOW internally.

WP: The Write Protect input pin inhibits all write operations, when pulled HIGH. When not driven, this pin is pulled LOW internally.

Functional Description

The CAT24Cxx supports the Inter-Integrated Circuit (I²C) Bus data transmission protocol, which defines a device that sends data to the bus as a transmitter and a device receiving data as a receiver. Data flow is controlled by a Master device, which generates the serial clock and all START and STOP conditions. The CAT24Cxx acts as a Slave device. Master and Slave alternate as either transmitter or receiver.

I²C Bus Protocol

The I²C bus consists of two ‘wires’, SCL and SDA. The two wires are connected to the V_{CC} supply via pull-up resistors. Master and Slave devices connect to the 2-wire bus via their respective SCL and SDA pins. The transmitting device pulls down the SDA line to ‘transmit’ a ‘0’ and releases it to ‘transmit’ a ‘1’.

Data transfer may be initiated only when the bus is not busy (see AC Characteristics).

During data transfer, the SDA line must remain stable while the SCL line is high. An SDA transition while SCL is high will be interpreted as a START or STOP condition (Figure 2). The START condition precedes all commands. It consists of a HIGH to LOW transition on SDA while SCL is HIGH. The START acts as a ‘wake-up’ call to all receivers. Absent a START, a Slave will not respond to commands. The STOP condition completes all commands. It consists of a LOW to HIGH transition on SDA while SCL is HIGH.

NOTE: *The I/O pins of CAT24Cxx do not obstruct the SCL and SDA lines if the VCC supply is switched off. During power-up, the SCL and SDA pins (connected with pull-up resistors to VCC) will follow the VCC monotonically from VSS (0 V) to nominal VCC value, regardless of pull-up resistor value. The delta between the VCC and the instantaneous voltage levels during power ramping will be determined by the relation between bus time constant (determined by pull-up resistance and bus capacitance) and actual VCC ramp rate.*

Device Addressing

The Master initiates data transfer by creating a START condition on the bus. The Master then broadcasts an 8-bit serial Slave address. For normal Read/Write operations, the first 4 bits of the Slave address are fixed at 1010 (Ah). The next 3 bits are used as programmable address bits when cascading multiple devices and/or as internal address bits. The last bit of the slave address, R/W, specifies whether a Read (1) or Write (0) operation is to be performed. The 3 address space extension bits are assigned as illustrated in Figure 3. A₂, A₁ and A₀ must match the state of the external address pins, and a₁₀, a₉ and a₈ are internal address bits.

Acknowledge

After processing the Slave address, the Slave responds with an acknowledge (ACK) by pulling down the SDA line during the 9th clock cycle (Figure 4). The Slave will also acknowledge the address byte and every data byte presented in Write mode. In Read mode the Slave shifts out a data byte, and then releases the SDA line during the 9th clock cycle. As long as the Master acknowledges the data, the Slave will continue transmitting. The Master terminates the session by not acknowledging the last data byte (NoACK) and by issuing a STOP condition. Bus timing is illustrated in Figure 5.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

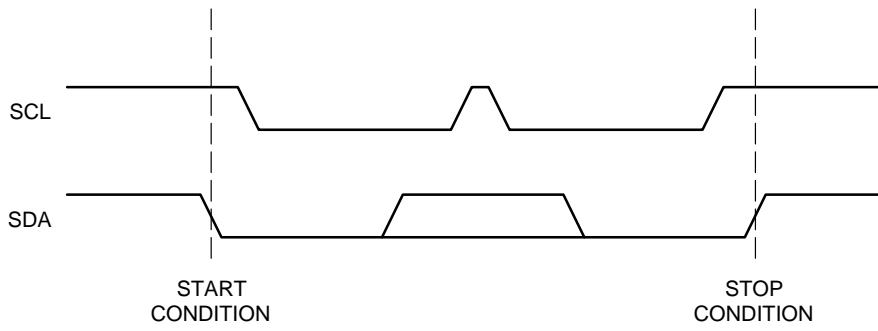


Figure 2. Start/Stop Timing

1	0	1	0	A ₂	A ₁	A ₀	R/W	CAT24C01 and CAT24C02
1	0	1	0	A ₂	A ₁	a ₈	R/W	CAT24C04
1	0	1	0	A ₂	a ₉	a ₈	R/W	CAT24C08
1	0	1	0	a ₁₀	a ₉	a ₈	R/W	CAT24C16

Figure 3. Slave Address Bits

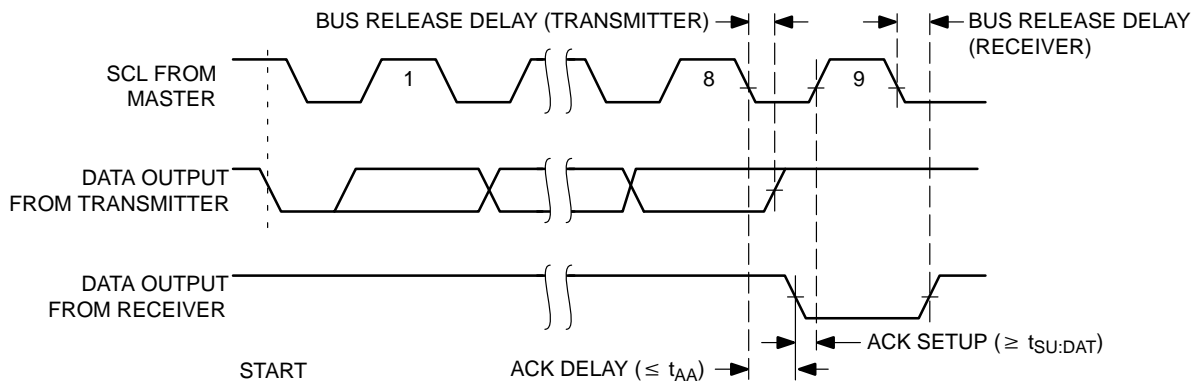


Figure 4. Acknowledge Timing

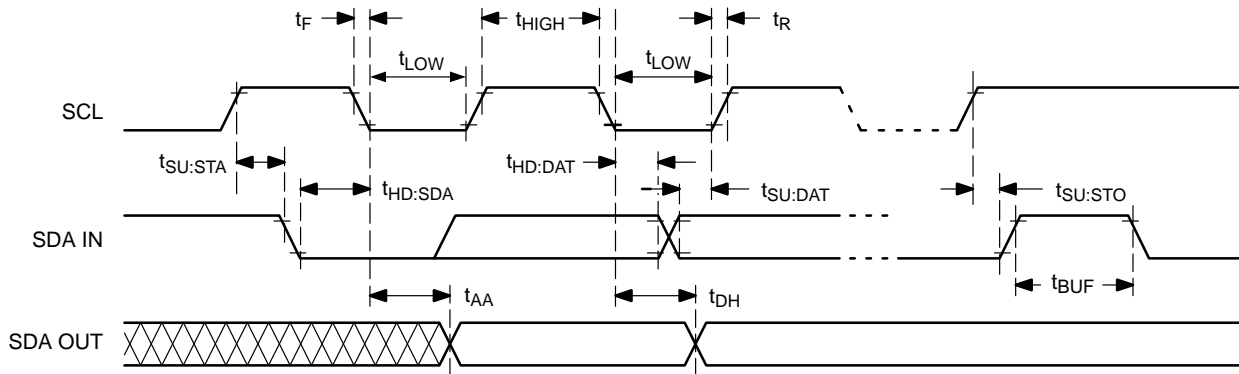


Figure 5. Bus Timing

WRITE OPERATIONS

Byte Write

In Byte Write mode, the Master sends the START condition and the Slave address with the R/W bit set to zero to the Slave. After the Slave generates an acknowledge, the Master sends the byte address that is to be written into the address pointer of the CAT24Cxx. After receiving another acknowledge from the Slave, the Master transmits the data byte to be written into the addressed memory location. The CAT24Cxx device will acknowledge the data byte and the Master generates the STOP condition, at which time the device begins its internal Write cycle to nonvolatile memory (Figure 6). While this internal cycle is in progress (t_{WR}), the SDA output will be tri-stated and the CAT24Cxx will not respond to any request from the Master device (Figure 7).

Page Write

The CAT24Cxx writes up to 16 bytes of data in a single write cycle, using the Page Write operation (Figure 8). The Page Write operation is initiated in the same manner as the Byte Write operation, however instead of terminating after the data byte is transmitted, the Master is allowed to send up to fifteen additional bytes. After each byte has been transmitted the CAT24Cxx will respond with an acknowledge and internally increments the four low order address bits. The high order bits that define the page address remain unchanged. If the Master transmits more than sixteen bytes prior to sending the STOP condition, the address counter ‘wraps around’ to the beginning of page and previously transmitted data will be overwritten. Once all

sixteen bytes are received and the STOP condition has been sent by the Master, the internal Write cycle begins. At this point all received data is written to the CAT24Cxx in a single write cycle.

Acknowledge Polling

The acknowledge (ACK) polling routine can be used to take advantage of the typical write cycle time. Once the stop condition is issued to indicate the end of the host’s write operation, the CAT24Cxx initiates the internal write cycle. The ACK polling can be initiated immediately. This involves issuing the start condition followed by the slave address for a write operation. If the CAT24Cxx is still busy with the write operation, NoACK will be returned. If the CAT24Cxx has completed the internal write operation, an ACK will be returned and the host can then proceed with the next read or write operation.

Hardware Write Protection

With the WP pin held HIGH, the entire memory is protected against Write operations. If the WP pin is left floating or is grounded, it has no impact on the operation of the CAT24Cxx. The state of the WP pin is strobed on the last falling edge of SCL immediately preceding the first data byte (Figure 9). If the WP pin is HIGH during the strobe interval, the CAT24Cxx will not acknowledge the data byte and the Write request will be rejected.

Delivery State

The CAT24Cxx is shipped erased, i.e., all bytes are FFh.

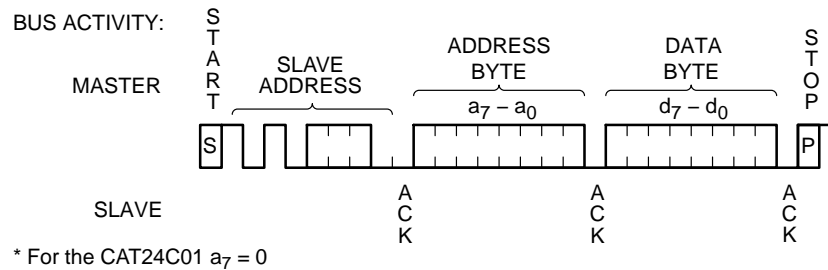


Figure 6. Byte Write Sequence

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

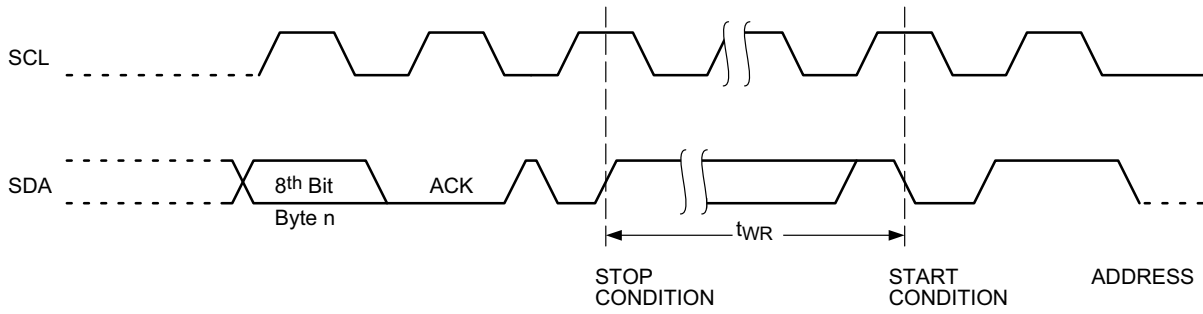


Figure 7. Write Cycle Timing

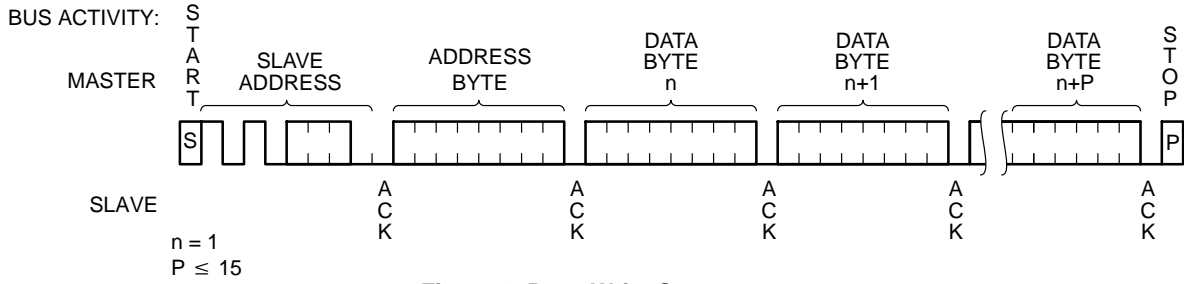


Figure 8. Page Write Sequence

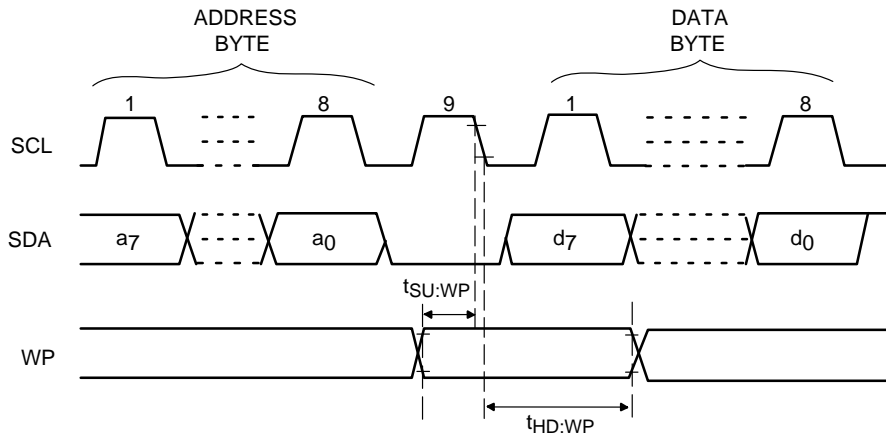


Figure 9. WP Timing

READ OPERATIONS

Immediate Read

Upon receiving a Slave address with the R/W bit set to '1', the CAT24Cxx will interpret this as a request for data residing at the current byte address in memory. The CAT24Cxx will acknowledge the Slave address, will immediately shift out the data residing at the current address, and will then wait for the Master to respond. If the Master does not acknowledge the data (NoACK) and then follows up with a STOP condition (Figure 10), the CAT24Cxx returns to Standby mode.

Selective Read

Selective Read operations allow the Master device to select at random any memory location for a read operation. The Master device first performs a 'dummy' write operation by sending the START condition, slave address and byte address of the location it wishes to read. After the

CAT24Cxx acknowledges the byte address, the Master device resends the START condition and the slave address, this time with the R/W bit set to one. The CAT24Cxx then responds with its acknowledge and sends the requested data byte. The Master device does not acknowledge the data (NoACK) but will generate a STOP condition (Figure 11).

Sequential Read

If during a Read session, the Master acknowledges the 1st data byte, then the CAT24Cxx will continue transmitting data residing at subsequent locations until the Master responds with a NoACK, followed by a STOP (Figure 12). In contrast to Page Write, during Sequential Read the address count will automatically increment to and then wrap-around at end of memory (rather than end of page). In the CAT24C01, the internal address count will not wrap around at the end of the 128 byte memory space.

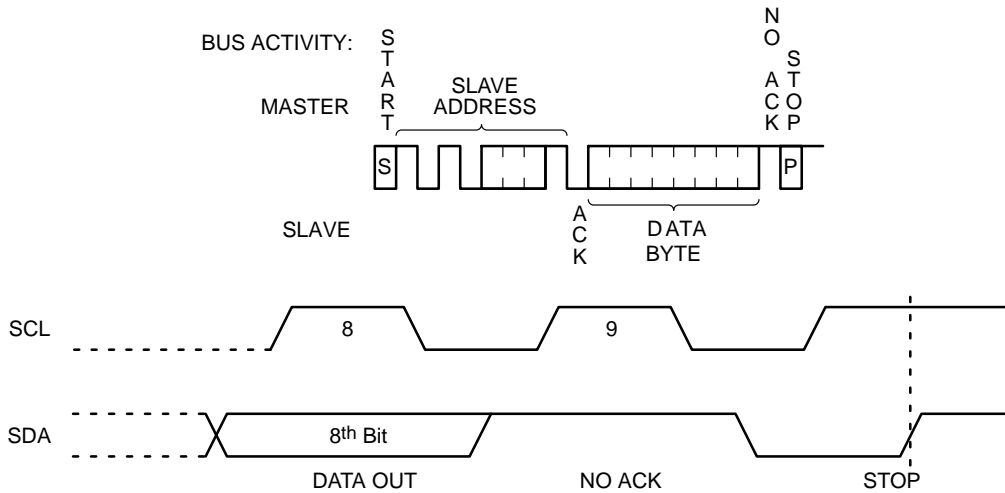


Figure 10. Immediate Read Sequence and Timing

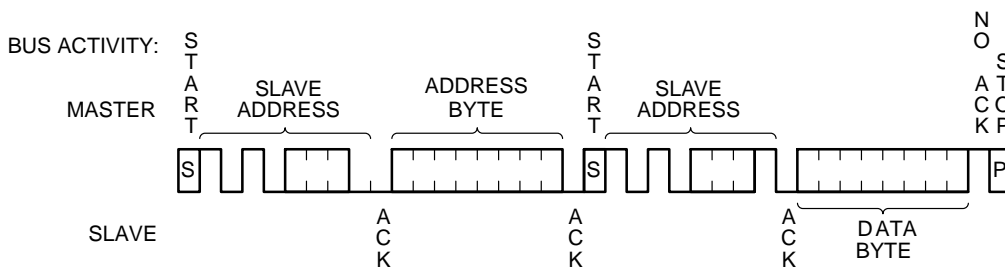


Figure 11. Selective Read Sequence

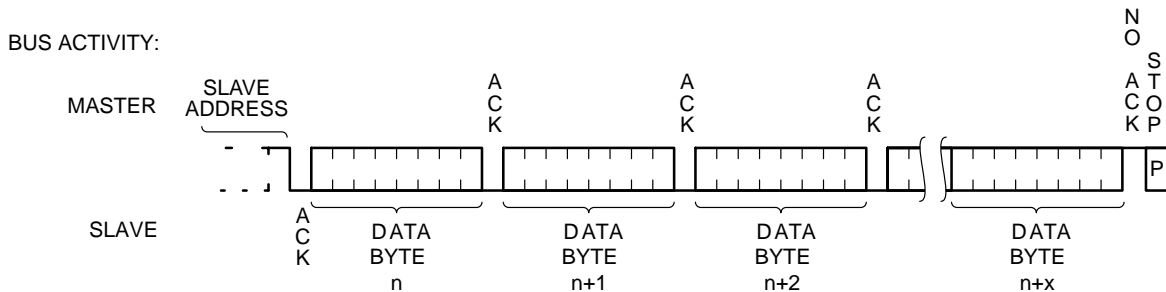
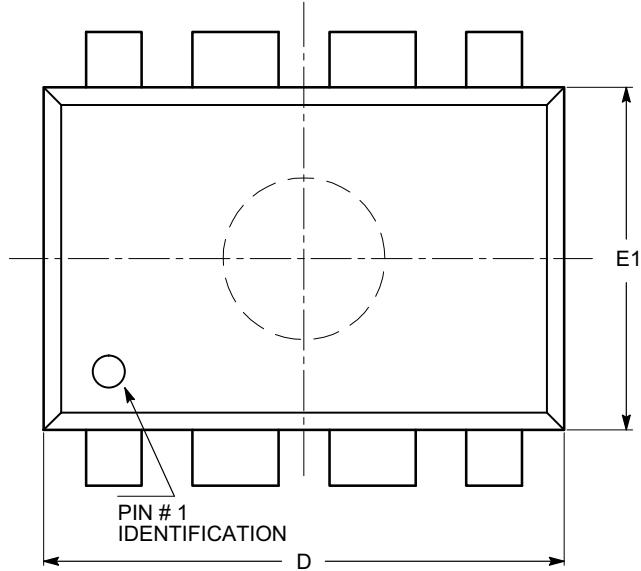


Figure 12. Sequential Read Sequence

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

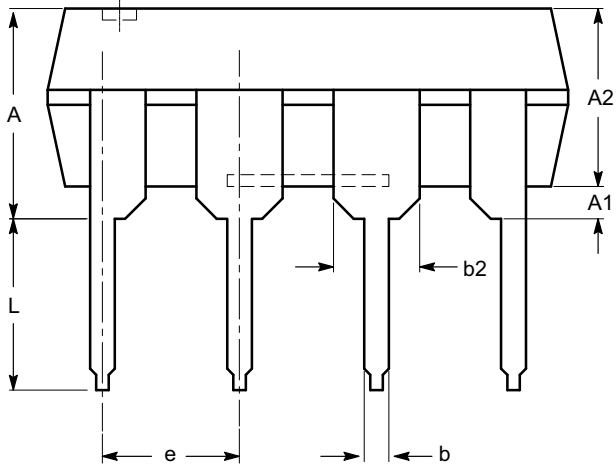
PACKAGE DIMENSIONS

PDIP-8, 300 mils
CASE 646AA
ISSUE A

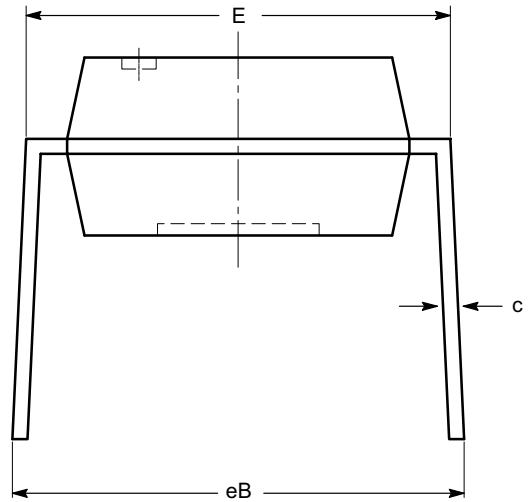


SYMBOL	MIN	NOM	MAX
A			5.33
A1	0.38		
A2	2.92	3.30	4.95
b	0.36	0.46	0.56
b2	1.14	1.52	1.78
c	0.20	0.25	0.36
D	9.02	9.27	10.16
E	7.62	7.87	8.25
E1	6.10	6.35	7.11
e	2.54 BSC		
eB	7.87		10.92
L	2.92	3.30	3.80

TOP VIEW



SIDE VIEW



END VIEW

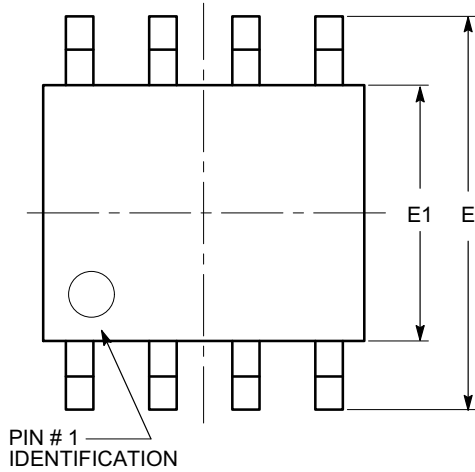
Notes:

- (1) All dimensions are in millimeters.
- (2) Complies with JEDEC MS-001.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

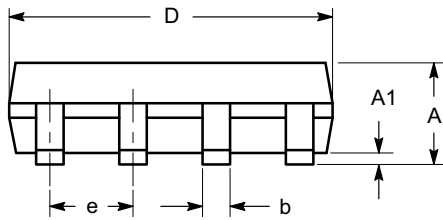
PACKAGE DIMENSIONS

SOIC 8, 150 mils
CASE 751BD
ISSUE O

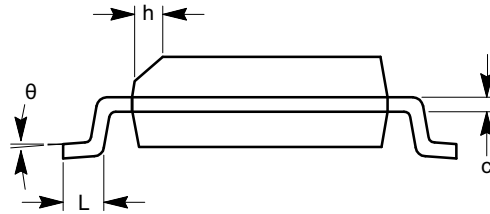


TOP VIEW

SYMBOL	MIN	NOM	MAX
A	1.35		1.75
A1	0.10		0.25
b	0.33		0.51
c	0.19		0.25
D	4.80		5.00
E	5.80		6.20
E1	3.80		4.00
e	1.27 BSC		
h	0.25		0.50
L	0.40		1.27
θ	0°		8°



SIDE VIEW



END VIEW

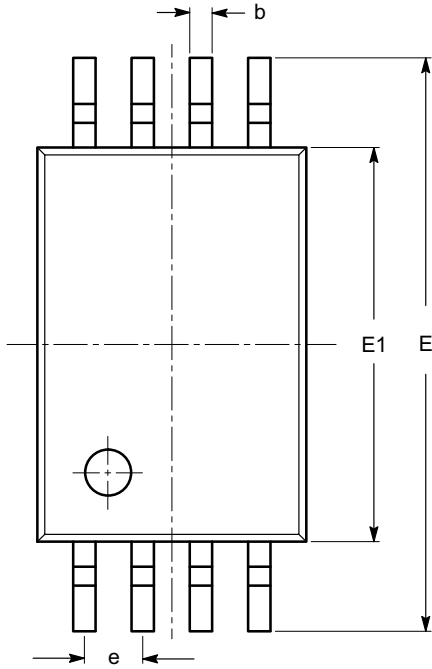
Notes:

- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MS-012.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

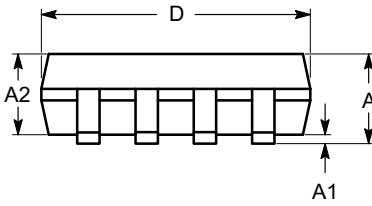
PACKAGE DIMENSIONS

TSSOP8, 4.4x3
CASE 948AL
ISSUE O

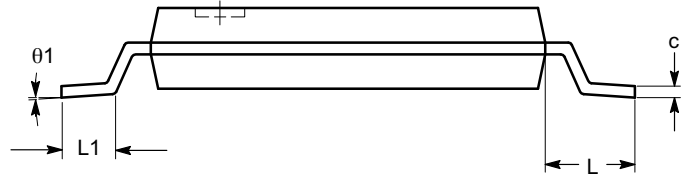


SYMBOL	MIN	NOM	MAX
A			1.20
A1	0.05		0.15
A2	0.80	0.90	1.05
b	0.19		0.30
c	0.09		0.20
D	2.90	3.00	3.10
E	6.30	6.40	6.50
E1	4.30	4.40	4.50
e	0.65 BSC		
L	1.00 REF		
L1	0.50	0.60	0.75
θ	0°		8°

TOP VIEW



SIDE VIEW



END VIEW

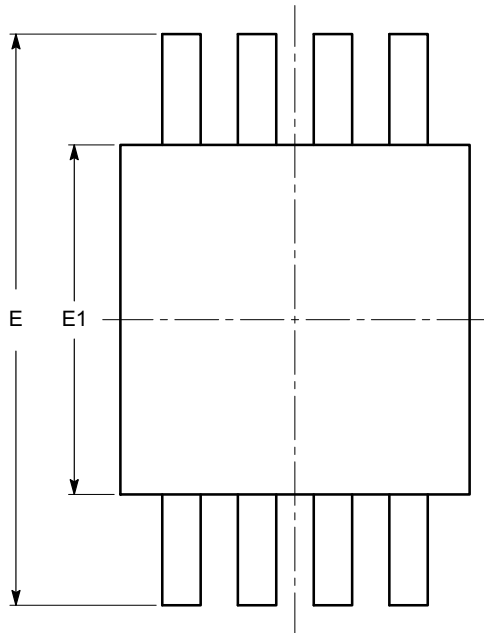
Notes:

- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-153.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

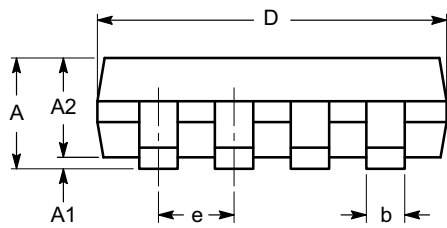
PACKAGE DIMENSIONS

MSOP 8, 3x3
CASE 846AD
ISSUE O

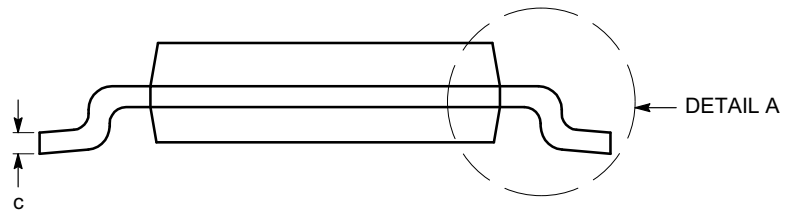


TOP VIEW

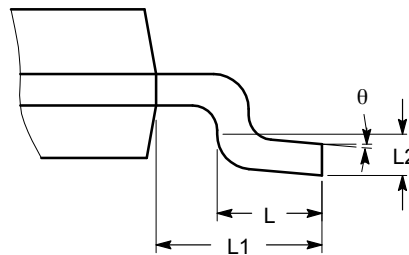
SYMBOL	MIN	NOM	MAX
A			1.10
A1	0.05	0.10	0.15
A2	0.75	0.85	0.95
b	0.22		0.38
c	0.13		0.23
D	2.90	3.00	3.10
E	4.80	4.90	5.00
E1	2.90	3.00	3.10
e	0.65 BSC		
L	0.40	0.60	0.80
L1	0.95 REF		
L2	0.25 BSC		
θ	0°		6°



SIDE VIEW



END VIEW



DETAIL A

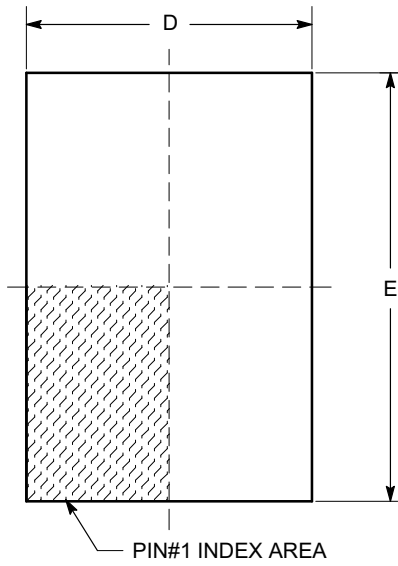
Notes:

- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-187.

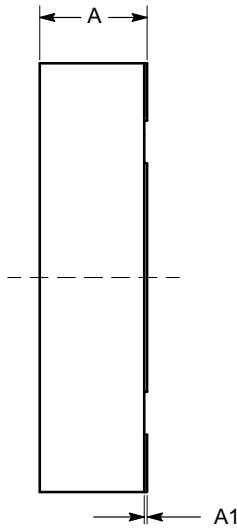
CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

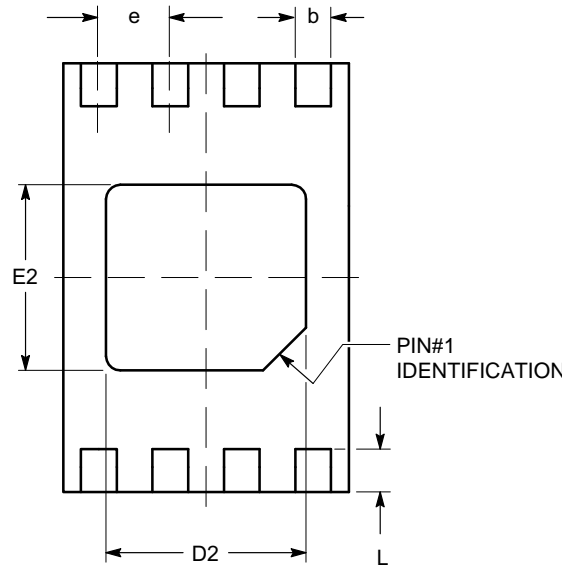
TDFN8, 2x3
CASE 511AK
ISSUE A



TOP VIEW

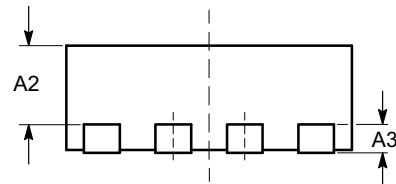


SIDE VIEW



BOTTOM VIEW

SYMBOL	MIN	NOM	MAX
A	0.70	0.75	0.80
A1	0.00	0.02	0.05
A2	0.45	0.55	0.65
A3	0.20 REF		
b	0.20	0.25	0.30
D	1.90	2.00	2.10
D2	1.30	1.40	1.50
E	2.90	3.00	3.10
E2	1.20	1.30	1.40
e	0.50 TYP		
L	0.20	0.30	0.40



FRONT VIEW

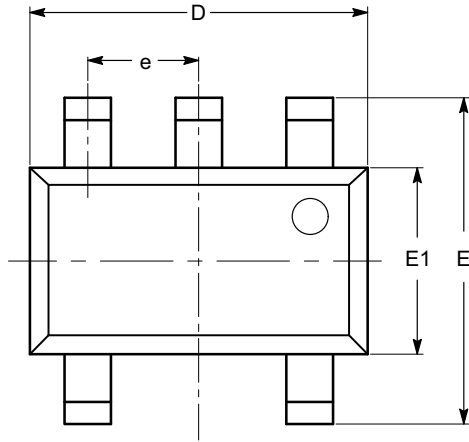
Notes:

- (1) All dimensions are in millimeters.
- (2) Complies with JEDEC MO-229.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

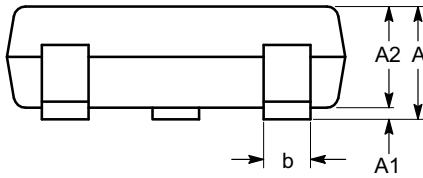
PACKAGE DIMENSIONS

TSOT-23, 5 LEAD
CASE 419AE
ISSUE O

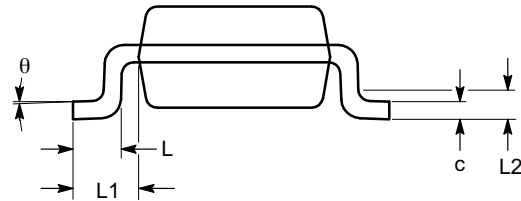


TOP VIEW

SYMBOL	MIN	NOM	MAX
A			1.00
A1	0.01	0.05	0.10
A2	0.80	0.87	0.90
b	0.30		0.45
c	0.12	0.15	0.20
D	2.90 BSC		
E	2.80 BSC		
E1	1.60 BSC		
e	0.95 TYP		
L	0.30	0.40	0.50
L1	0.60 REF		
L2	0.25 BSC		
θ	0°		8°



SIDE VIEW



END VIEW

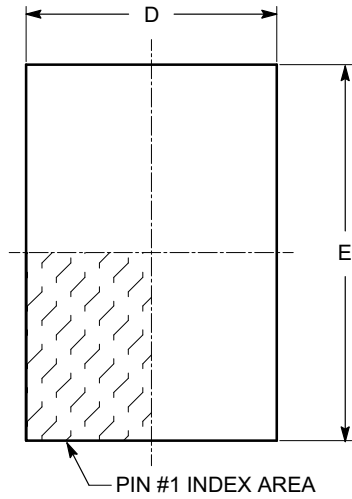
Notes:

- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-193.

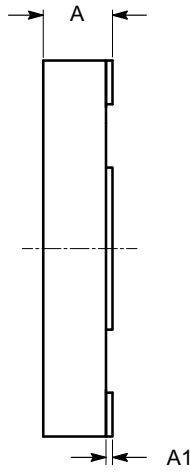
CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

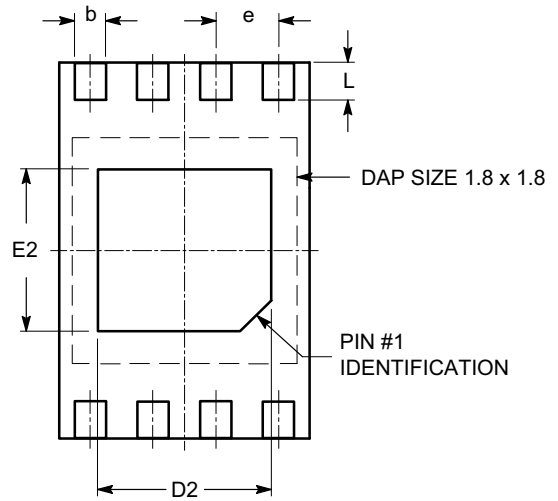
UDFN8, 2x3 EXTENDED PAD CASE 517AZ ISSUE O



TOP VIEW

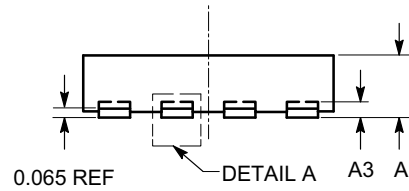


SIDE VIEW

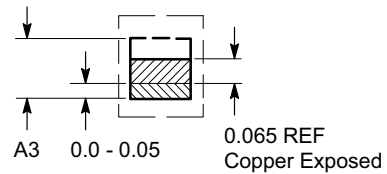


BOTTOM VIEW

SYMBOL	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
A3	0.127 REF		
b	0.20	0.25	0.30
D	1.95	2.00	2.05
D2	1.35	1.40	1.45
E	2.95	3.00	3.05
E2	1.25	1.30	1.35
e	0.50 REF		
L	0.25	0.30	0.35



FRONT VIEW



DETAIL A

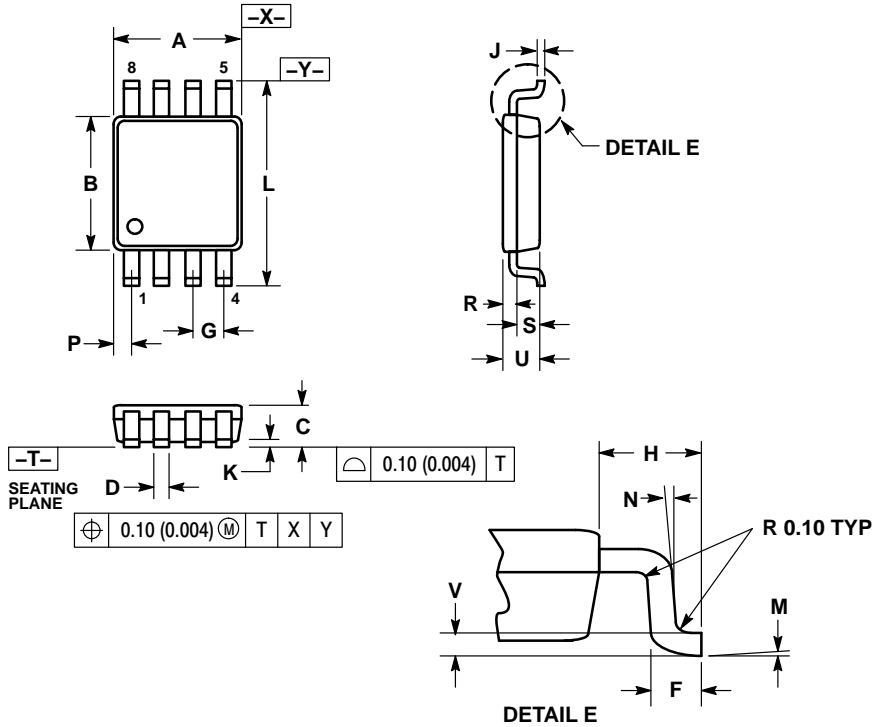
Notes:

- (1) All dimensions are in millimeters.
- (2) Refer JEDEC MO-236/MO-252.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

US8 CASE 493-02 ISSUE B

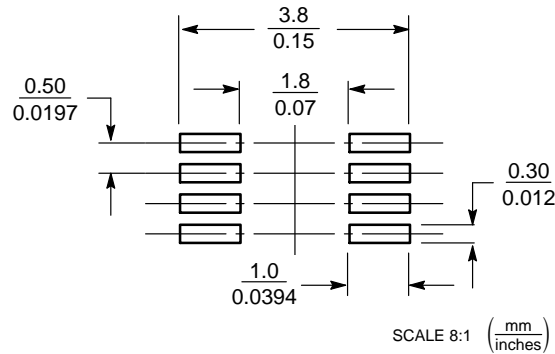


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION "A" DOES NOT INCLUDE MOLD FLASH, PROTRUSION OR GATE BURR. MOLD FLASH, PROTRUSION AND GATE BURR SHALL NOT EXCEED 0.140 MM (0.0055") PER SIDE.
4. DIMENSION "B" DOES NOT INCLUDE INTER-LEAD FLASH OR PROTRUSION. INTER-LEAD FLASH AND PROTRUSION SHALL NOT EXCEED 0.140 (0.0055") PER SIDE.
5. LEAD FINISH IS SOLDER PLATING WITH THICKNESS OF 0.0076-0.0203 MM. (300-800 Å).
6. ALL TOLERANCE UNLESS OTHERWISE SPECIFIED ±0.0508 (0.0002").

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.90	2.10	0.075	0.083
B	2.20	2.40	0.087	0.094
C	0.60	0.90	0.024	0.035
D	0.17	0.25	0.007	0.010
F	0.20	0.35	0.008	0.014
G	0.50 BSC		0.020 BSC	
H	0.40 REF		0.016 REF	
J	0.10	0.18	0.004	0.007
K	0.00	0.10	0.000	0.004
L	3.00	3.20	0.118	0.126
M	0°	6°	0°	6°
N	5°	10°	5°	10°
P	0.23	0.34	0.010	0.013
R	0.23	0.33	0.009	0.013
S	0.37	0.47	0.015	0.019
U	0.60	0.80	0.024	0.031
V	0.12 BSC		0.005 BSC	

SOLDERING FOOTPRINT*

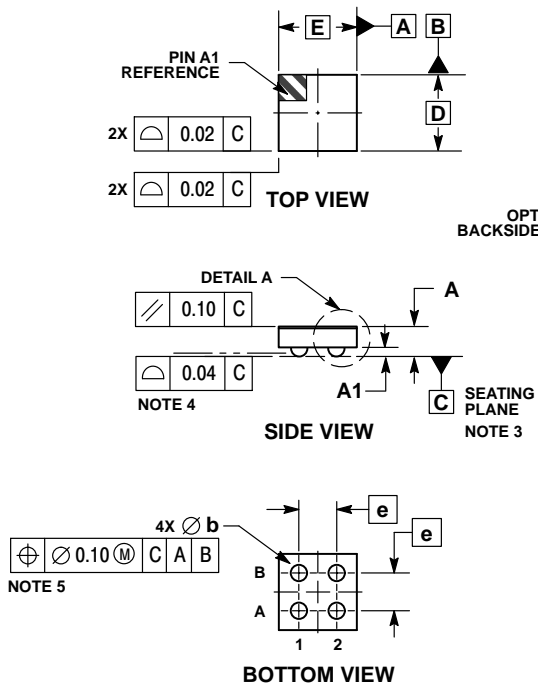


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

WLCSP4, 0.84x0.86
CASE 567NX
ISSUE O

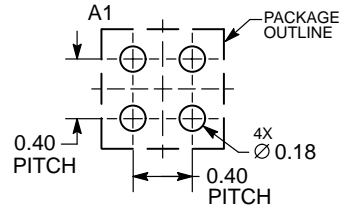


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF THE CONTACT BALLS.
4. COPLANARITY APPLIES TO SPHERICAL CROWNS OF THE CONTACT BALLS.
5. DIMENSION b IS MEASURED AT THE MAXIMUM CONTACT BALL DIAMETER PARALLEL TO DATUM C.

DIM	MILLIMETERS	
	MIN	MAX
A	0.28	0.33
A1	0.08	0.12
A2	0.175 REF	
A3	0.025 REF	
b	0.16	0.20
D	0.84 BSC	
E	0.86 BSC	
e	0.40 BSC	

RECOMMENDED SOLDERING FOOTPRINT*



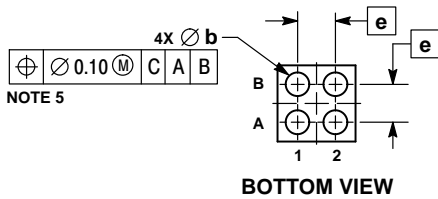
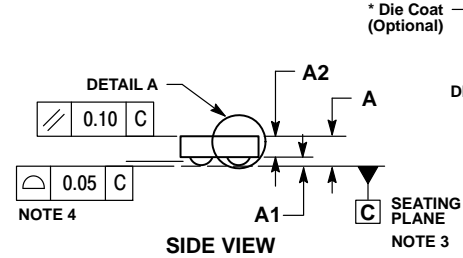
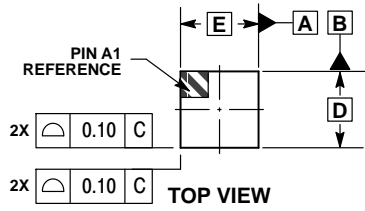
DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

WLCSP4, 0.84x0.86
CASE 567DC
ISSUE D



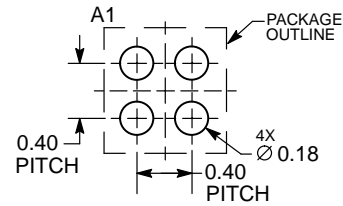
NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF THE CONTACT BALLS.
4. COPLANARITY APPLIES TO SPHERICAL CROWNS OF THE CONTACT BALLS.
5. DIMENSION b IS MEASURED AT THE MAXIMUM CONTACT BALL DIAMETER PARALLEL TO DATUM C.

DIM	MILLIMETERS	
	MIN	MAX
A	0.28	0.38
A1	0.08	0.12
A2	0.23 REF	
A3*	0.025 REF	
b	0.16	0.20
D	0.84 BSC	
E	0.86 BSC	
e	0.40 BSC	

* Die Coat (Optional)

RECOMMENDED SOLDERING FOOTPRINT*



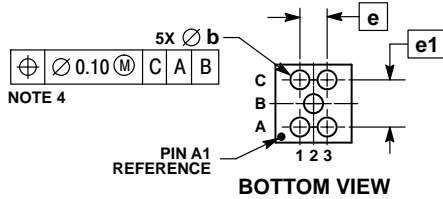
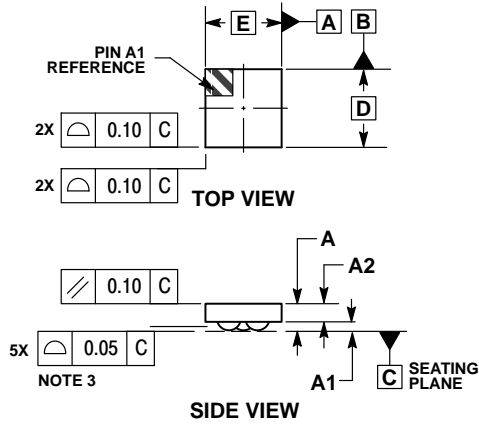
DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

PACKAGE DIMENSIONS

WLCSP5, 0.86x0.84
CASE 567DD
ISSUE C

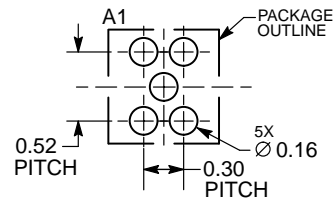


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF THE CONTACT BALLS.
4. COPLANARITY APPLIES TO SPHERICAL CROWNS OF THE CONTACT BALLS.
5. DIMENSION b IS MEASURED AT THE MAXIMUM CONTACT BALL DIAMETER PARALLEL TO DATUM C.

MILLIMETERS		
DIM	MIN	MAX
A	0.29	0.39
A1	0.10	0.14
A2	0.23 REF	
b	0.14	0.18
D	0.86 BSC	
E	0.84 BSC	
e	0.30 BSC	
e1	0.52 BSC	

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

Ordering Information

CAT24C01 Ordering Information

Device Order Number	Specific Device Marking	Package Type	Temperature Range (Note 9)	Lead Finish	Shipping
CAT24C01TDI-GT3	MM	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01VP2I-GT3*	EE	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01WI-GT3	24C01WI	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01WE-GT3	24C01WI	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01YI-GT3	C01	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01YE-GT3	C01	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C01ZI-GT3	ABMK	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel

CAT24C02 Ordering Information (Notes 10, 11)

Device Order Number	Specific Device Marking	Package Type	Temperature Range (Note 9)	Lead Finish	Shipping
CAT24C02WI-G	24C02H	SOIC-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C02WI-GA	24C02H	SOIC-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C02WI-GT3	24C02H	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02WI-GT3A	24C02H	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02WE-GT3	24C02H	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02WE-GT3A	24C02H	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02YI-G	C02H	TSSOP-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C02YI-GA	C02H	TSSOP-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C02YI-GT3	C02H	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02YI-GT3A	C02H	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02YE-GT3	C02H	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02YE-GT3A	C02H	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02VP2I-GT3*	C1T	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02VP2IGT3A*	C1T	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02VP2E-GT3*	C1T	TDFN-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02VP2EGT3A*	C1T	TDFN-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02ZI-GT3	C1	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02ZE-GT3	C1	MSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02ZI-GT3A	C1	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02ZE-GT3A	C1	MSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02TDI-GT3	C1	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02TDE-GT3	C1	TSOT-23-5	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02TDI-GT3A	C1	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02TDE-GT3A	C1	TSOT-23-5	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02LI-GA	24C02H	PDIP-8	Industrial	NiPdAu	Tube, 50 Units / Tube
CAT24C02LE-GA	24C02H	PDIP-8	Extended	NiPdAu	Tube, 50 Units / Tube
CAT24C02HU4IGT3A	C1U	UDFN8-EP	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02HU4EGT3A	C1U	UDFN8-EP	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C02USI-T3	TBD	US8	Industrial	Matte-Tin	Tape & Reel, 3,000 Units / Reel

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

CAT24C04 Ordering Information

Device Order Number	Specific Device Marking	Package Type	Temperature Range (Note 9)	Lead Finish	Shipping
CAT24C04WI-G	24C04K	SOIC-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C04WI-GT3	24C04K	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04WE-GT3	24C04K	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04YI-G	C04K	TSSOP-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C04YI-GT3	C04K	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04YE-GT3	C04K	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04VP2I-GT3*	C2T	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04LI-G	24C04K	PDIP-8	Industrial	NiPdAu	Tube, 50 Units / Tube
CAT24C04LE-G	24C04K	PDIP-8	Extended	NiPdAu	Tube, 50 Units / Tube
CAT24C04ZI-GT3	C2	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04ZE-GT3	C2	MSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04C4UTR	R	WLCSP-4	Industrial	N/A	(Notes 12 and 13)
CAT24C04C4ATR	4	WLCSP-4	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C04C5ATR	4	WLCSP-5	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C04TDI-GT3	C2	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04TDE-GT3	C2	TSOT-23-5	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04HU4I-GT3	C2U	UDFN8-EP	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04HU4E-GT3	C2U	UDFN8-EP	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C04USI-T3	TBD	US8	Industrial	Matte-Tin	Tape & Reel, 3,000 Units / Reel

CAT24C08 Ordering Information

Device Order Number	Specific Device Marking	Package Type	Temperature Range (Note 9)	Lead Finish	Shipping
CAT24C08WI-G	24C08K	SOIC-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C08WI-GT3	24C08K	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08WE-GT3	24C08K	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08YI-G	C08K	TSSOP-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C08YI-GT3	C08K	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08YE-GT3	C08K	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08VP2I-GT3*	C3T	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08VP2E-GT3*	C3T	TDFN-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08LI-G	24C08K	PDIP-8	Industrial	NiPdAu	Tube, 50 Units / Tube
CAT24C08LE-G	24C08K	PDIP-8	Extended	NiPdAu	Tube, 50 Units / Tube
CAT24C08ZI-GT3	C3	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08ZE-GT3	C3	MSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08C4UTR	T	WLCSP-4	Industrial	N/A	(Notes 12 and 13)
CAT24C08C4ATR	8	WLCSP-4	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C08C4CTR**	8	WLCSP-4	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C08C5ATR	8	WLCSP-5	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C08TDI-GT3	C3	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08TDE-GT3	C3	TSOT-23-5	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08HU4I-GT3	C3U	UDFN8-EP	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08HU4E-GT3	C3U	UDFN8-EP	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C08USI-T3	TBD	US8	Industrial	Matte-Tin	Tape & Reel, 3,000 Units / Reel

CAT24C01, CAT24C02, CAT24C04, CAT24C08, CAT24C16

CAT24C16 Ordering Information

Device Order Number	Specific Device Marking	Package Type	Temperature Range (Note 9)	Lead Finish	Shipping
CAT24C16WI-G	24C16K	SOIC-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C16WI-GT3	24C16K	SOIC-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16WE-GT3	24C16K	SOIC-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16YI-G	C16K	TSSOP-8	Industrial	NiPdAu	Tube, 100 Units / Tube
CAT24C16YI-GT3	C16K	TSSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16YE-GT3	C16K	TSSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16VP2I-GT3*	C4T	TDFN-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16VP2E-GT3*	C4T	TDFN-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16LI-G	24C16K	PDIP-8	Industrial	NiPdAu	Tube, 50 Units / Tube
CAT24C16LE-G	24C16K	PDIP-8	Extended	NiPdAu	Tube, 50 Units / Tube
CAT24C16ZI-GT3	C4	MSOP-8	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16ZE-GT3	C4	MSOP-8	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16C4UTR	V	WLCSP-4	Industrial	N/A	(Notes 12 and 13)
CAT24C16C4ATR	6	WLCSP-4	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C16C5ATR	6	WLCSP-5	Industrial	N/A	Tape & Reel, 5,000 Units / Reel
CAT24C16TDI-GT3	C4	TSOT-23-5	Industrial	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16TDE-GT3	C4	TSOT-23-5	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16HU4I-GT3	C4U	UDFN8-EP	Extended	NiPdAu	Tape & Reel, 3,000 Units / Reel
CAT24C16USI-T3	TBD	US8	Industrial	Matte-Tin	Tape & Reel, 3,000 Units / Reel

9. Industrial temperature range is -40°C to +85°C and Extended temperature range is -40°C to +125°C.

10. **Part numbers ending with "A" for the CAT24C02 are for Gresham (Product Rev H) only die.**

11. The CAT24C02 "non-A" Device Order Numbers use Gresham die (Rev H) for date codes, starting August 1st, 2012. Therefore the Specific Device Marking for these OPNs reflect Rev H die.

12. Contact local sales office for availability.

13. CAUTION: The EEPROM devices delivered in WLCSP must never be exposed to ultraviolet light. When exposed to ultraviolet light the EEPROM cells lose their stored data.


14. All packages are RoHS-compliant (Lead-free, Halogen-free).

15. For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

16. For detailed information and a breakdown of device nomenclature and numbering systems, please see the ON Semiconductor Device Nomenclature document, TND310/D, available at www.onsemi.com

* The TDFN (VP2) package is not recommended for new designs.

** CAT24C08C4CTR is a backside coated version. Contact factory for other densities.

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