



CY7C261 CY7C263/CY7C264

8K x 8 Power-Switched and Reprogrammable PROM

Features

- CMOS for optimum speed/power
- Windowed for reprogrammability
- High speed
 - 20 ns (commercial)
 - 25 ns (military)
- Low power
 - 660 mW (commercial)
 - 770 mW (military)
- Super low standby power (7C261)
 - Less than 220 mW when deselected
 - Fast access: 20 ns
- EPROM technology 100% programmable
- Slim 300-mil or standard 600-mil packaging available
- 5V \pm 10% V_{CC}, commercial and military

- Capable of withstanding greater than 2001V static discharge
- TTL-compatible I/O
- Direct replacement for bipolar PROMs

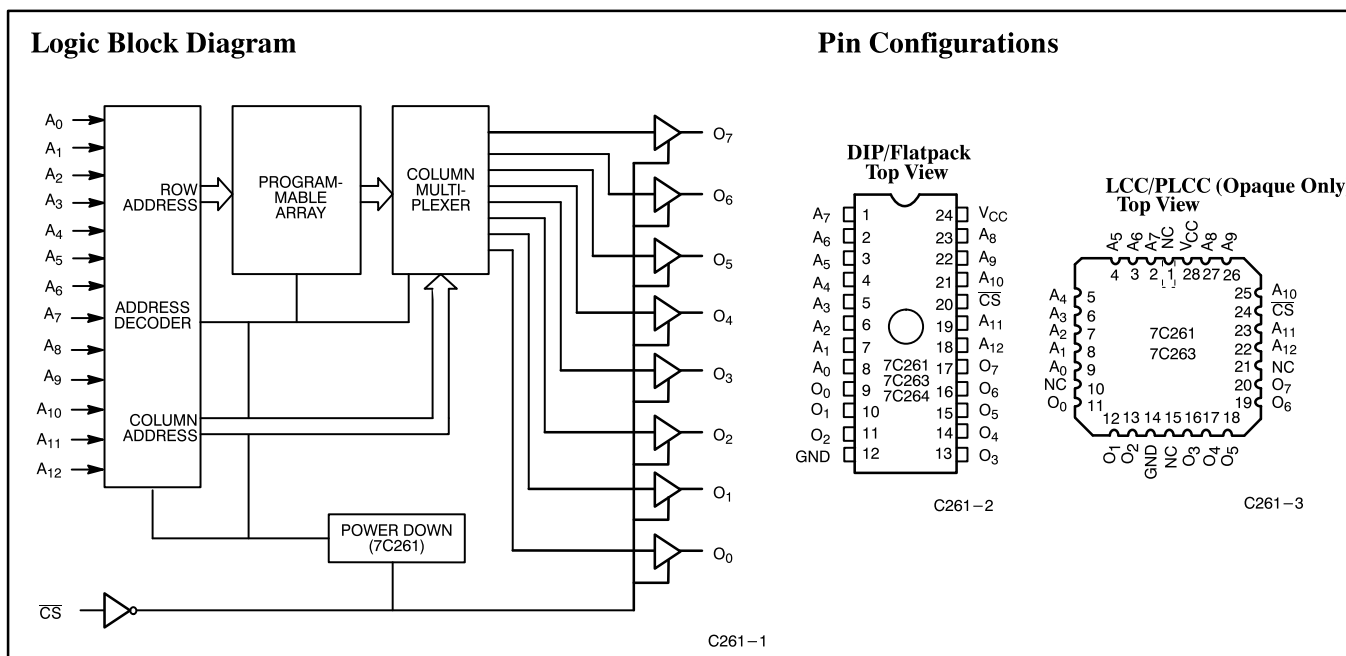
Functional Description

The CY7C261, CY7C263, and CY7C264 are high-performance 8192-word by 8-bit CMOS PROMs. When deselected, the 7C261 automatically powers down into a low-power standby mode. It is packaged in a 300-mil-wide package. The 7C263 and 7C264 are packaged in 300-mil-wide and 600-mil-wide packages respectively, and do not power down when deselected. The reprogrammable packages are equipped with an erasure window; when exposed to UV light, these PROMs are erased and can then be reprogrammed. The memory cells utilize proven EPROM

floating-gate technology and byte-wide intelligent programming algorithms.

The CY7C261, CY7C263, and CY7C264 are plug-in replacements for bipolar devices and offer the advantages of lower power, superior performance and programming yield. The EPROM cell requires only 12.5V for the supervoltage and low current requirements allow for gang programming. The EPROM cells allow for each memory location to be tested 100%, as each location is written into, erased, and repeatedly exercised prior to encapsulation. Each PROM is also tested for AC performance to guarantee that after customer programming the product will meet DC and AC specification limits.

Read is accomplished by placing an active LOW signal on \overline{CS} . The contents of the memory location addressed by the address line (A₀ – A₁₂) will become available on the output lines (O₀ – O₇).



Selection Guide

| | | 7C261-20 7C263-20 7C264-20 | 7C261-25 7C263-25 7C264-25 | 7C261-35 7C263-35 7C264-35 | 7C261-45 7C263-45 7C264-45 | 7C261-55 7C263-55 7C264-55 |
|--|------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Maximum Access Time (ns) | | 20 | 25 | 35 | 45 | 55 |
| Maximum Operating Current (mA) | Commercial | 120 | 120 | 100 | 100 | 100 |
| | Military | | 140 | 120 | 120 | 120 |
| Maximum Standby Current (mA) (7C261 only) | Commercial | 40 | 40 | 30 | 30 | 30 |
| | Military | | 40 | 30 | 30 | 30 |

For an 8K x 8 Registered PROM, see the CY7C265.



Maximum Ratings

(Above which the useful life may be impaired. For user guidelines, not tested.)

| | |
|---|-----------------|
| Storage Temperature | −65°C to +150°C |
| Ambient Temperature with Power Applied | −55°C to +125°C |
| Supply Voltage to Ground Potential (Pin 24 to Pin 12) | −0.5V to +7.0V |
| DC Voltage Applied to Outputs in High Z State | −0.5V to +7.0V |
| DC Input Voltage | −3.0V to +7.0V |
| DC Program Voltage (Pin 19 DIP, Pin 23 LCC) | 13.0V |

| | |
|--------------------------|--|
| Static Discharge Voltage | >2001V (per MIL-STD-883, Method 3015) |
| Latch-Up Current | >200 mA |
| UV Exposure | 7258 Wsec/cm ² |

Operating Range

| Range | Ambient Temperature | V _{CC} |
|---------------------------|---------------------|-----------------|
| Commercial | 0°C to +70°C | 5V ± 10% |
| Industrial ^[1] | −40°C to +85°C | 5V ± 10% |
| Military ^[2] | −55°C to +125°C | 5V ± 10% |

Electrical Characteristics Over the Operating Range^[3, 4]

| Parameter | Description | Test Conditions | | 7C261–20, 25 7C263–20, 25 7C264–20, 25 | | 7C261–35, 45, 55 7C263–35, 45, 55 7C264–35, 45, 55 | | Unit |
|------------------|---|--|-------|--|------|--|------|------|
| | | | | Min. | Max. | Min. | Max. | |
| V _{OH} | Output HIGH Voltage | V _{CC} = Min., I _{OH} = –2.0 mA | | 2.4 | | | | V |
| V _{OH} | Output HIGH Voltage | V _{CC} = Min., I _{OH} = –4.0 mA | | | | 2.4 | | V |
| V _{OL} | Output LOW Voltage | V _{CC} = Min., I _{OL} = 8 mA (6 mA Mil) | | | 0.4 | | | V |
| V _{OL} | Output LOW Voltage | V _{CC} = Min., I _{OL} = 16 mA | | | | | 0.4 | V |
| V _{IH} | Input HIGH Level | | | 2.0 | | 2.0 | | V |
| V _{IL} | Input LOW Level | | | | 0.8 | | 0.8 | V |
| I _{IX} | Input Current | GND ≤ V _{IN} ≤ V _{CC} | | –10 | +10 | –10 | +10 | µA |
| V _{CD} | Input Diode Clamp Voltage | | | Note 4 | | Note 4 | | |
| I _{OZ} | Output Leakage Current | GND ≤ V _{OUT} ≤ V _{CC} Output Disabled | Com'l | –10 | +10 | –10 | +10 | µA |
| | | | Mil | –40 | +40 | –40 | +40 | |
| I _{OS} | Output Short Circuit Current ^[5] | V _{CC} = Max., V _{OUT} = GND | | –20 | –90 | –20 | –90 | mA |
| I _{CC} | Power Supply Current | V _{CC} = Max., f = Max. I _{OUT} = 0 mA | Com'l | | 120 | | 100 | mA |
| | | | Mil | | 140 | | 120 | |
| I _{SB} | Standby Supply Current (7C261) | V _{CC} = Max., CS ≥ V _{IH} | Com'l | | 40 | | 30 | mA |
| | | | Mil | | 40 | | 30 | |
| V _{PP} | Programming Supply Voltage | | | 12 | 13 | 12 | 13 | V |
| I _{PP} | Programming Supply Current | | | | 50 | | 50 | mA |
| V _{IHP} | Input HIGH Programming Voltage | | | 4.75 | | 4.75 | | V |
| V _{ILP} | Input LOW Programming Voltage | | | | 0.4 | | 0.4 | V |

Capacitance^[4]

| Parameter | Description | Test Conditions | Max. | Unit |
|------------------|--------------------|---|------|------|
| C _{IN} | Input Capacitance | T _A = 25°C, f = 1 MHz, V _{CC} = 5.0V | 10 | pF |
| C _{OUT} | Output Capacitance | | 10 | pF |

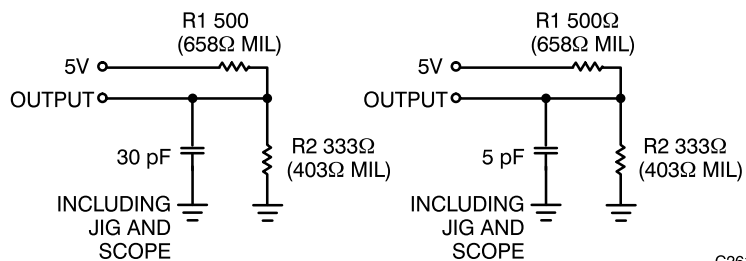
Notes:

- See the Ordering Information section regarding industrial temperature range specification.
- T_A is the “instant on” case temperature.
- See the last page of this specification for Group A subgroup testing information.
- See the “Introduction to CMOS PROMs” section of the Cypress Data Book for general information on testing.
- For test purposes, not more than one output at a time should be shorted. Short circuit test duration should not exceed 30 seconds.



AC Test Loads and Waveforms^[4]

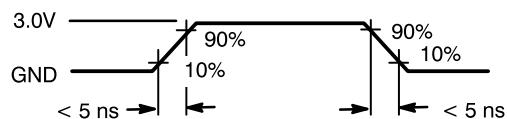
Test Load for –20 through –30 speeds



(a) Normal Load

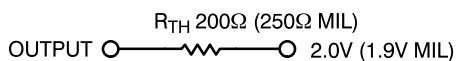
(b) High Z Load

C261–4

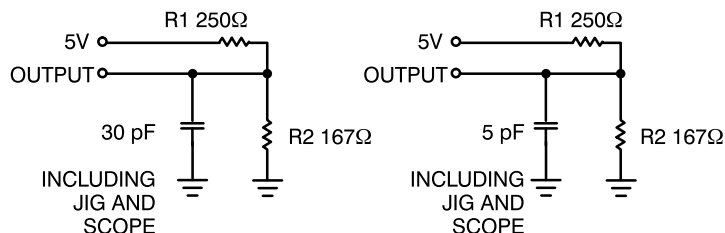


C261–5

Equivalent to: THÉVENIN EQUIVALENT



Test Load for –35 through –55 speeds

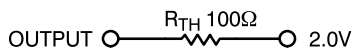


(c) Normal Load

(d) High Z Load

C261–6

Equivalent to: THÉVENIN EQUIVALENT

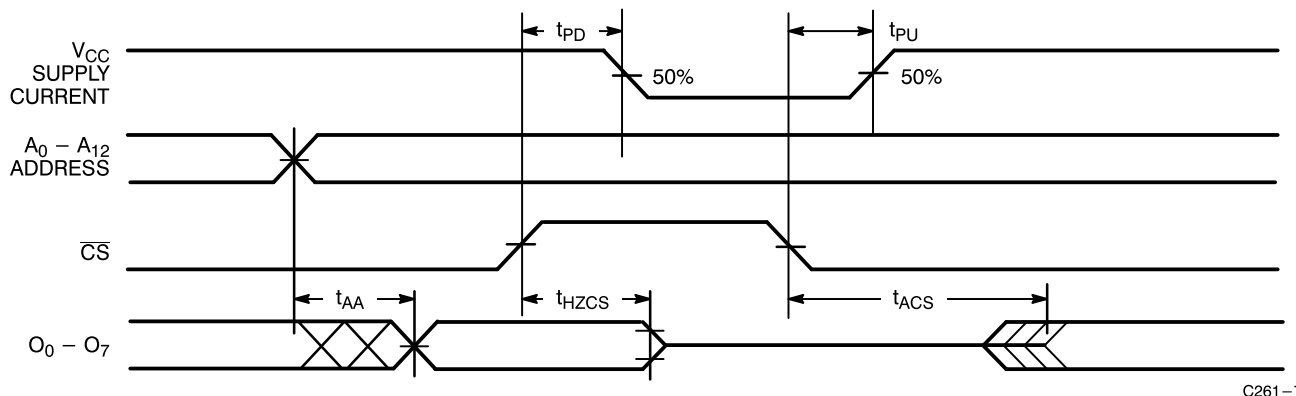


Switching Characteristics Over the Operating Range^[2, 3, 4]

| Parameter | Description | 7C261–20 7C263–20 7C264–20 | | 7C261–25 7C263–25 7C264–25 | | 7C261–35 7C263–35 7C264–35 | | 7C261–45 7C263–45 7C264–45 | | 7C261–55 7C263–55 7C264–55 | | Unit |
|--------------------|--|----------------------------------|------|----------------------------------|------|----------------------------------|------|----------------------------------|------|----------------------------------|------|------|
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | |
| t _{AA} | Address to Output Valid | | 20 | | 25 | | 35 | | 45 | | 55 | ns |
| t _{HZCS1} | Chip Select Inactive to High Z (7C263 and 7C264) | | 12 | | 12 | | 20 | | 30 | | 35 | ns |
| t _{HZCS2} | Chip Select Inactive to High Z (7C261) | | 20 | | 25 | | 35 | | 45 | | 55 | ns |
| t _{ACS1} | Chip Select Active to Output Valid (7C263 and 7C264) | | 12 | | 12 | | 20 | | 30 | | 35 | ns |
| t _{ACS2} | Chip Select Active to Output Valid (7C261) | | 20 | | 25 | | 35 | | 45 | | 55 | ns |
| t _{PU} | Chip Select Active to Power-Up (7C261) | 0 | | 0 | | 0 | | 0 | | 0 | | ns |
| t _{PD} | Chip Select Inactive to Power-Down (7C261) | | 20 | | 25 | | 35 | | 45 | | 55 | ns |



Switching Waveforms^[4]



C261-7

Erase Characteristics

Wavelengths of light less than 4000 angstroms begin to erase the devices in the windowed package. For this reason, an opaque label should be placed over the window if the PROM is exposed to sunlight or fluorescent lighting for extended periods of time.

The recommended dose of ultraviolet light for erasure is a wavelength of 2537 angstroms for a minimum dose (UV intensity multiplied by exposure time) of 25 Wsec/cm². For an ultraviolet lamp with a 12 mW/cm² power rating, the exposure time would be approximately 35 minutes. The 7C261 or 7C263 needs to be within 1 inch of the lamp during erasure. Permanent damage may result if the PROM is exposed to high-intensity UV light for an extended period of time. 7258 Wsec/cm² is the recommended maximum dosage.

Operating Modes

Read

Read is the normal operating mode for a programmed device. In this mode, all signals are normal TTL levels. The PROM is addressed with a 13-bit field, a chip select, (active LOW), is applied to the \overline{CS} pin, and the contents of the addressed location appear on the data out pins.

Program, Program Inhibit, Program Verify

These modes are entered by placing a high voltage V_{PP} on pin 19, with pins 18 and 20 set to V_{ILP} . In this state, pin 21 becomes a latch signal, allowing the upper 5 address bits to be latched into an onboard register, pin 22 becomes an active LOW program (PGM) signal and pin 23 becomes an active LOW verify (\overline{VFY}) signal. Pins 22 and 23 should never be active LOW at the same time. The PROGRAM mode exists when \overline{PGM} is LOW, and \overline{VFY} is HIGH. The verify mode exists when the reverse is true, \overline{PGM} HIGH and \overline{VFY} LOW and the program inhibit mode is entered with both \overline{PGM} and \overline{VFY} HIGH. Program inhibit is specifically provided to allow data to be placed on and removed from the data pins without conflict.

Table 1. Mode Selection

| Mode | | Pin Function ^[6, 7] | | | | | | |
|-----------------|------------------------|--------------------------------|----------|-----------|------------------|------------------|-----------------|-------------|
| | | A_{12} | A_{11} | A_{10} | A_9 | A_8 | \overline{CS} | $O_7 - O_0$ |
| | Read or Output Disable | A_{12} | A_{11} | A_{10} | A_9 | A_8 | V_{IL} | $O_7 - O_0$ |
| | Program | NA | V_{PP} | LATCH | \overline{PGM} | \overline{VFY} | \overline{CS} | $D_7 - D_0$ |
| Read | | A_{12} | A_{11} | A_{10} | A_9 | A_8 | V_{IL} | $O_7 - O_0$ |
| Output Disable | | A_{12} | A_{11} | A_{10} | A_9 | A_8 | V_{IH} | High Z |
| Program | | V_{ILP} | V_{PP} | V_{ILP} | V_{ILP} | V_{IHP} | V_{ILP} | $D_7 - D_0$ |
| Program Inhibit | | V_{ILP} | V_{PP} | V_{ILP} | V_{IHP} | V_{IHP} | V_{ILP} | High Z |
| Program Verify | | V_{ILP} | V_{PP} | V_{ILP} | V_{IHP} | V_{ILP} | V_{ILP} | $O_7 - O_0$ |
| Blank Check | | V_{ILP} | V_{PP} | V_{ILP} | V_{IHP} | V_{ILP} | V_{ILP} | $O_7 - O_0$ |

Notes:

6. X = "don't care" but not to exceed $V_{CC} \pm 5\%$.

7. Addresses $A_8 - A_{12}$ must be latched through lines $A_0 - A_4$ in programming modes.



CY7C261 CY7C263/CY7C264

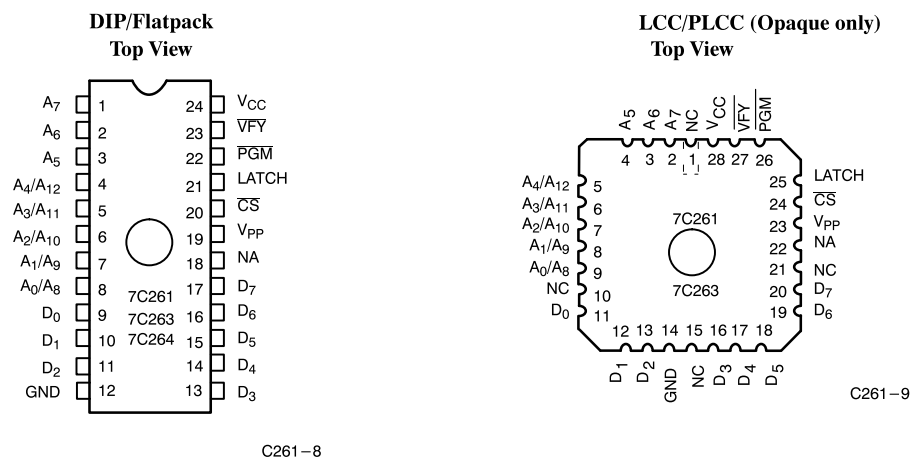


Figure 1. Programming Pinouts

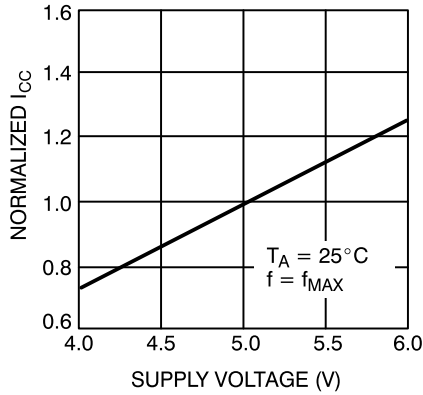
Programming Information

Programming support is available from Cypress as well as from a number of third-party software vendors. For detailed programming information, including a listing of software packages, please see the PROM Programming Information located at the end of this section. Programming algorithms can be obtained from any Cypress representative.

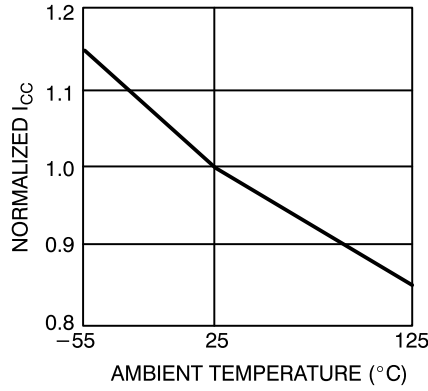


Typical DC and AC Characteristics

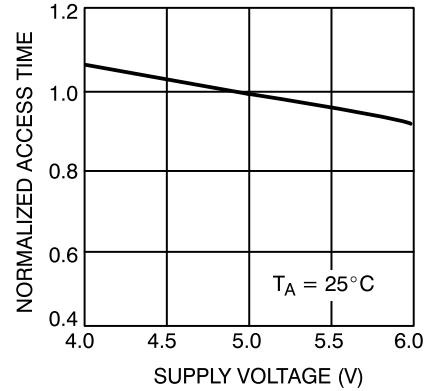
NORMALIZED SUPPLY CURRENT vs. SUPPLY VOLTAGE



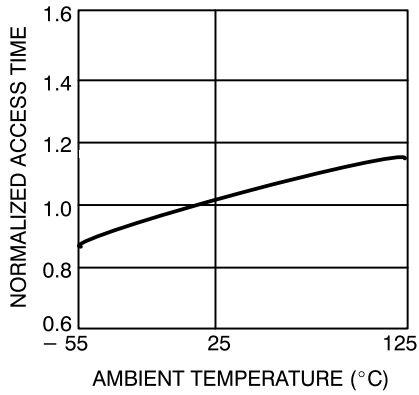
NORMALIZED SUPPLY CURRENT vs. AMBIENT TEMPERATURE



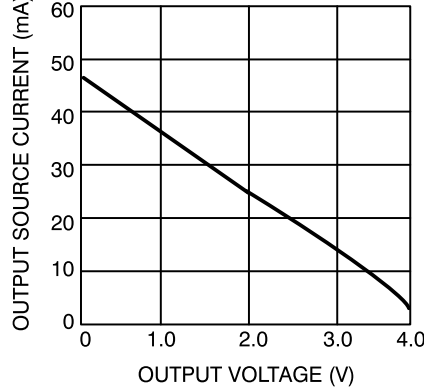
NORMALIZED ACCESS TIME vs. SUPPLY VOLTAGE



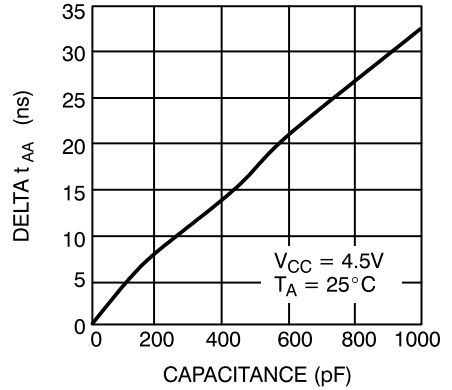
NORMALIZED ACCESS TIME vs. TEMPERATURE



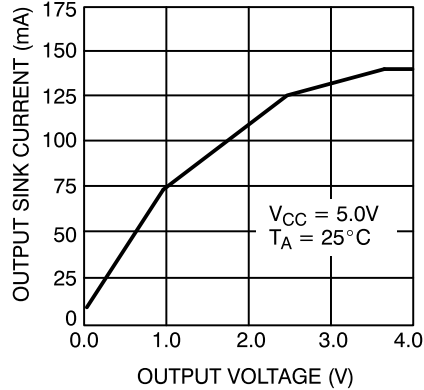
OUTPUT SOURCE CURRENT vs. VOLTAGE



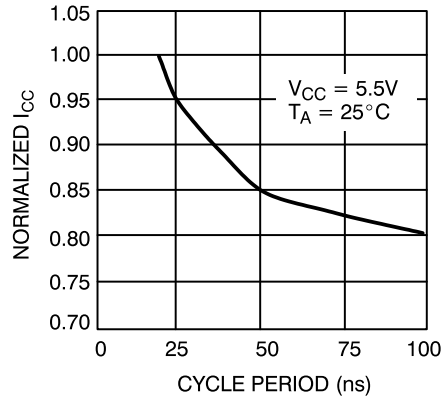
TYPICAL ACCESS TIME CHANGE vs. OUTPUT LOADING



OUTPUT SINK CURRENT vs. OUTPUT VOLTAGE



NORMALIZED SUPPLY CURRENT vs. CYCLE PERIOD





Ordering Information^[8]

| Speed (ns) | Ordering Code | Package Name | Package Type | Operating Range |
|------------|---------------|--------------|---------------------------------------|-----------------|
| 20 | CY7C261-20JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C261-20PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C261-20WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| 25 | CY7C261-25JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C261-25PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C261-25WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C261-25DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C261-25LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C261-25QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C261-25TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C261-25WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| 35 | CY7C261-35JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C261-35PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C261-35WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C261-35DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C261-35LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C261-35QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C261-35TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C261-35WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| 45 | CY7C261-45JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C261-45PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C261-45WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C261-45DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C261-45LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C261-45QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C261-45TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C261-45WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| 55 | CY7C261-55JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C261-55PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C261-55WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C261-55DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C261-55LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C261-55QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C261-55TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C261-55WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |

Note:

8. Most of these products are available in industrial temperature range. Contact a Cypress representative for specifications and product availability.



Ordering Information^[8] (continued)

| Speed (ns) | Ordering Code | Package Name | Package Type | Operating Range |
|------------|---------------|--------------|---------------------------------------|-----------------|
| 20 | CY7C263-20JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C263-20PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C263-20WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| 25 | CY7C263-25JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C263-25PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C263-25WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C263-25DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C263-25LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C263-25QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C263-25TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C263-25WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | | | | |
| 35 | CY7C263-35JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C263-35PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C263-35WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C263-35DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C263-35LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C263-35QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C263-35TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C263-35WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | | | | |
| 45 | CY7C263-45JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C263-45PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C263-45WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C263-45DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C263-45LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C263-45QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C263-45TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C263-45WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | | | | |
| 55 | CY7C263-55JC | J64 | 28-Lead Plastic Leaded Chip Carrier | Commercial |
| | CY7C263-55PC | P13 | 24-Lead (300-Mil) Molded DIP | |
| | CY7C263-55WC | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | CY7C263-55DMB | D14 | 24-Lead (300-Mil) CerDIP | Military |
| | CY7C263-55LMB | L64 | 28-Square Leadless Chip Carrier | |
| | CY7C263-55QMB | Q64 | 28-Pin Windowed Leadless Chip Carrier | |
| | CY7C263-55TMB | T73 | 24-Lead Windowed Cerpack | |
| | CY7C263-55WMB | W14 | 24-Lead (300-Mil) Windowed CerDIP | |
| | | | | |



Ordering Information (continued)^[8]

| Speed (ns) | Ordering Code | Package Name | Package Type | Operating Range |
|------------|---------------|--------------|-----------------------------------|-----------------|
| 20 | CY7C264-20DC | D12 | 24-Lead (600-Mil) CerDIP | Commercial |
| | CY7C264-20PC | P11 | 24-Lead (600-Mil) Molded DIP | |
| | CY7C264-20WC | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| 25 | CY7C264-25DC | D12 | 24-Lead (600-Mil) CerDIP | Commercial |
| | CY7C264-25PC | P11 | 24-Lead (600-Mil) Molded DIP | |
| | CY7C264-25WC | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| | CY7C264-25DMB | D12 | 24-Lead (600-Mil) CerDIP | Military |
| | CY7C264-25WMB | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| 35 | CY7C264-35DC | D12 | 24-Lead (600-Mil) CerDIP | Commercial |
| | CY7C264-35PC | P11 | 24-Lead (600-Mil) Molded DIP | |
| | CY7C264-35WC | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| | CY7C264-35DMB | D12 | 24-Lead (600-Mil) CerDIP | Military |
| | CY7C264-35WMB | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| 45 | CY7C264-45DC | D12 | 24-Lead (600-Mil) CerDIP | Commercial |
| | CY7C264-45PC | P11 | 24-Lead (600-Mil) Molded DIP | |
| | CY7C264-45WC | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| | CY7C264-45DMB | D12 | 24-Lead (600-Mil) CerDIP | Military |
| | CY7C264-45WMB | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| 55 | CY7C264-55DC | D12 | 24-Lead (600-Mil) CerDIP | Commercial |
| | CY7C264-55PC | P11 | 24-Lead (600-Mil) Molded DIP | |
| | CY7C264-55WC | W12 | 24-Lead (600-Mil) Windowed CerDIP | |
| | CY7C264-55DMB | D12 | 24-Lead (600-Mil) CerDIP | Military |
| | CY7C264-55WMB | W12 | 24-Lead (600-Mil) Windowed CerDIP | |

MILITARY SPECIFICATIONS

Group A Subgroup Testing

DC Characteristics

| Parameter | Subgroups |
|--------------------------------|-----------|
| V _{OH} | 1, 2, 3 |
| V _{OL} | 1, 2, 3 |
| V _{IH} | 1, 2, 3 |
| V _{IL} | 1, 2, 3 |
| I _{IX} | 1, 2, 3 |
| I _{OZ} | 1, 2, 3 |
| I _{CC} | 1, 2, 3 |
| I _{SB} ^[9] | 1, 2, 3 |

Switching Characteristics

| Parameter | Subgroups |
|-----------------------------------|-----------------|
| t _{AA} | 7, 8, 9, 10, 11 |
| t _{ACS1} ^[10] | 7, 8, 9, 10, 11 |
| t _{ACS2} ^[9] | 7, 8, 9, 10, 11 |

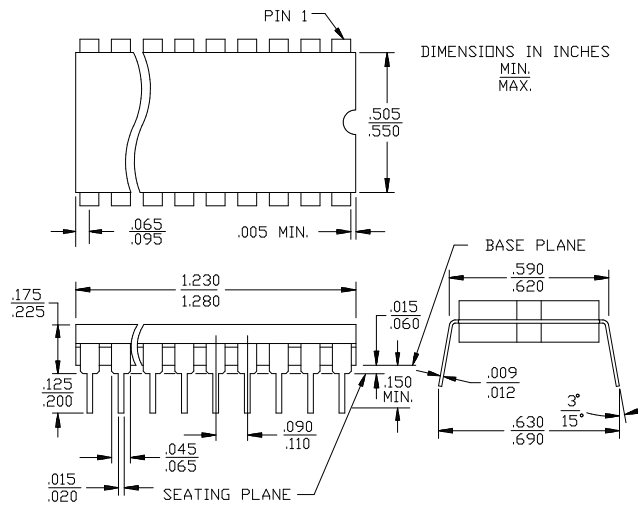
Notes:

9. 7C261 only.

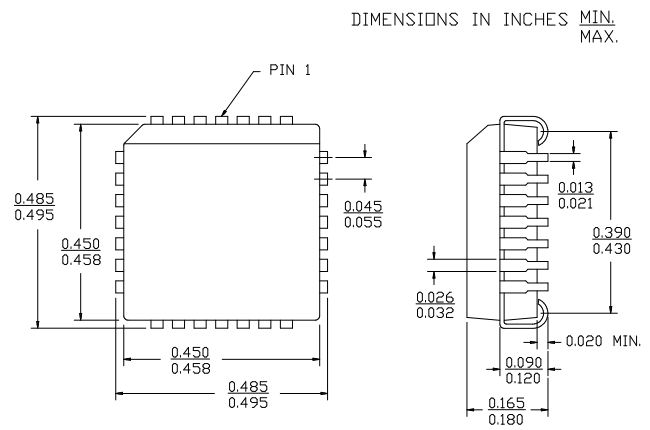
10. 7C263 and 7C264 only.

Package Diagrams

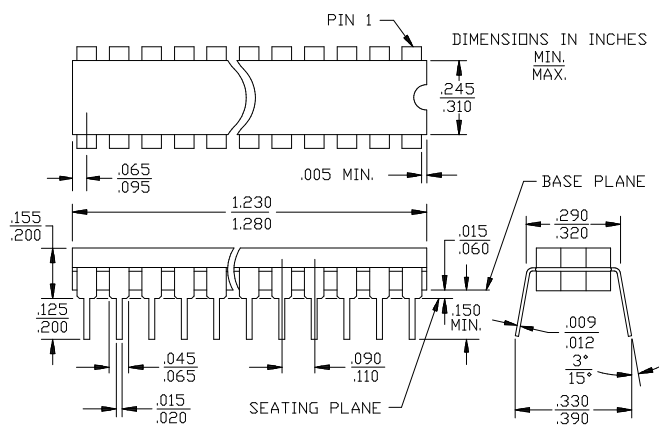
24-Lead (600-Mil) CerDIP D12
MIL-STD-1835 D-3 Config. A



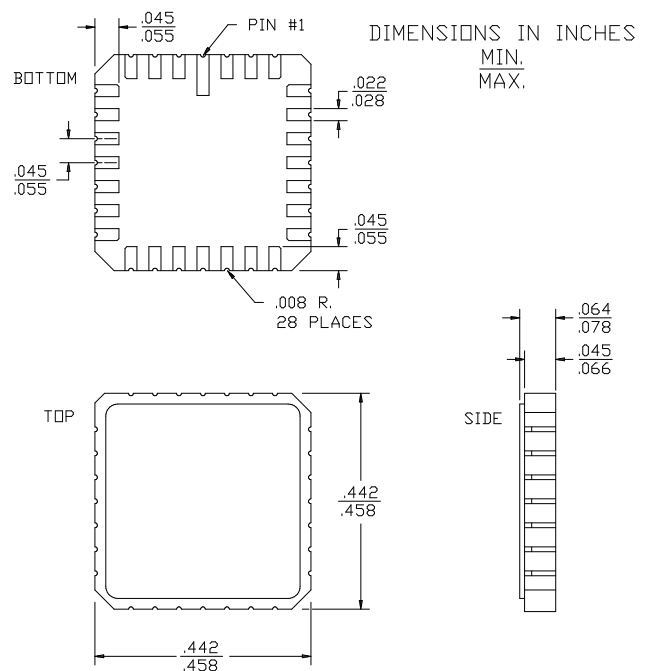
28-Lead Plastic Leaded Chip Carrier J64



24-Lead (300-Mil) CerDIP D14
MIL-STD-1835 D-9 Config. A



28-Square Leadless Chip Carrier L64
MIL-STD-1835 C-4

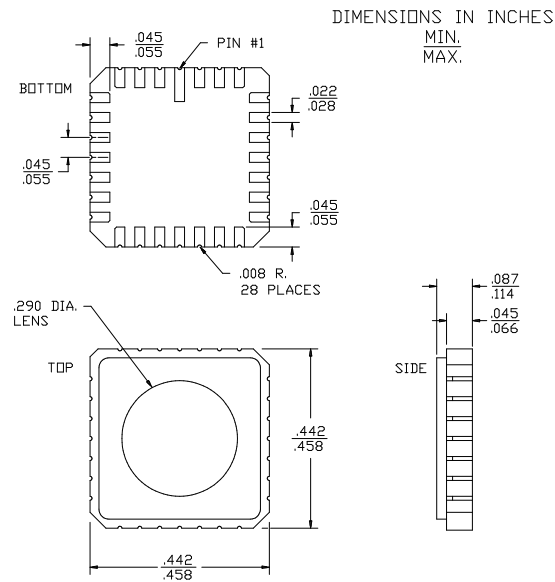




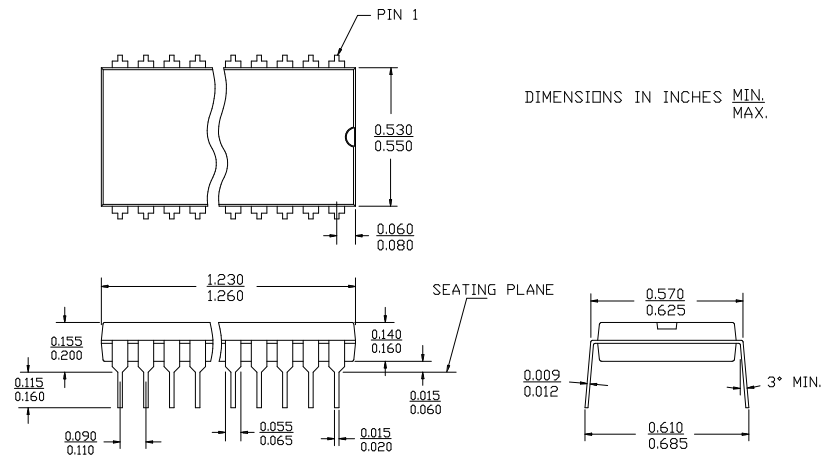
CY7C261
CY7C263/CY7C264

Package Diagrams (continued)

28-Pin Windowed Leadless Chip Carrier Q64
MIL-STD-1835 C-4



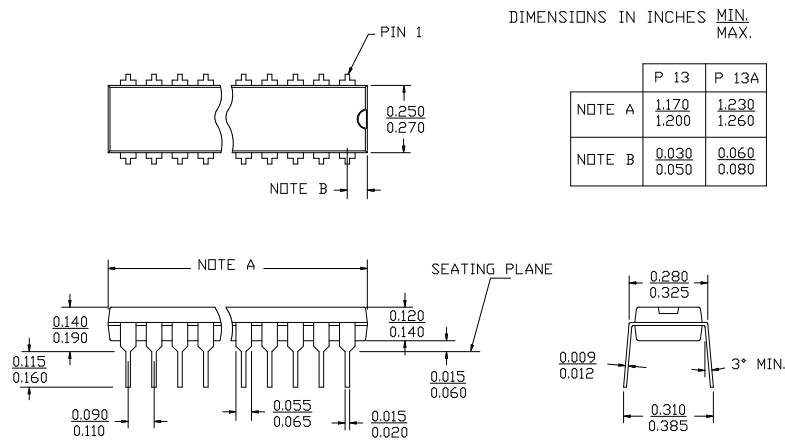
24-Lead (600-Mil) Molded DIP P11



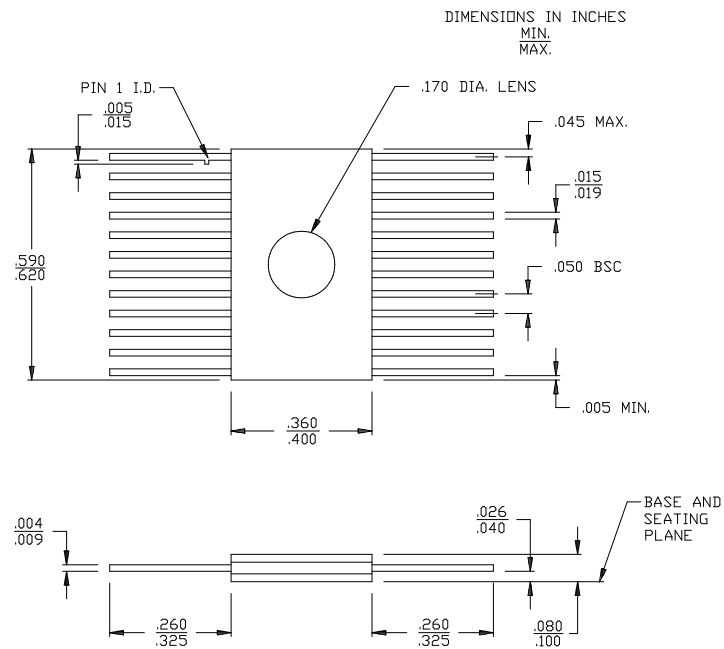


Package Diagrams (continued)

24-Lead (300-Mil) Molded DIP P13/P13A



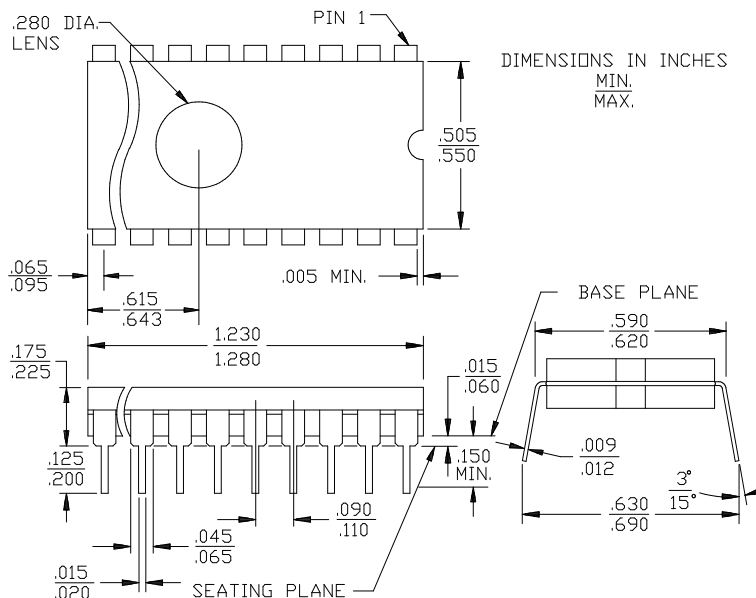
24-Lead Windowed Cerpack T73





Package Diagrams (continued)

24-Lead (600-Mil) Windowed CerDIP W12
MIL-STD-1835 D-3 Config. A



24-Lead (300-Mil) Windowed CerDIP W14
MIL-STD-1835 D-9 Config. A

