

# 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<sub>CC</sub>, commercial and military
- Capable of withstanding greater than 2001V static discharge
- TTL-compatible I/O
- · Direct replacement for bipolar PROMs

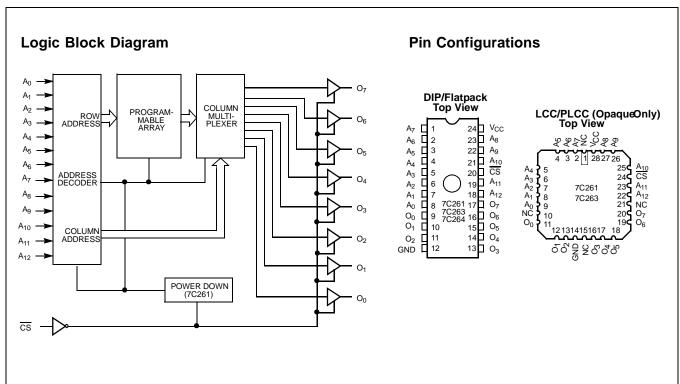
### **Functional Description**

The CY7C261, CY7C263, and CY7C264 are high-performance 8192-word by 8-bit CMOS PROMs. When deselected,

the CY7C261 automatically powers down into a low-power standby mode. It is packaged in a 300-mil-wide package. The CY7C263 and CY7C264 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  $(A_0-A_{12})$  will become available on the output lines  $(O_0-O_7)$ .



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



### **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	Unit
Maximum Access Time	)	20	25	35	45	55	ns
Maximum Operating	Commercial	120	120	100	100	100	mA
Current	Military		140	120	120	120	mA
Maximum Standby	Commercial	40	40	30	30	30	mA
Current (7C261 only)	Military		40	30	30	30	mA

## Maximum Ratings<sup>[1]</sup>

(Above which the useful life may be impaired. For user guide lines, not tested.)
Storage Temperatures65°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 State0.5V to+7.0V
DC Input Voltage3.0V to + 7.0V
DC Program Voltage (Pin 19 DIP, Pin 23 LCC)13.0V

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

## **Operating Range**

Range	Ambient Temperature	V <sub>CC</sub>
Commercial	0°C to + 70°C	5V ± 10%
Military <sup>[2]</sup>	–55°C to + 125°C	5V ± 10%

#### Notes:

- The volatge on any input or I/O pin cannot exceed the power pin during power-up.
   T<sub>A</sub> is the "instant on" case temperature.



## **Electrical Characteristics** Over the Operating Range<sup>[3,4]</sup>

				7C263	-20, 25 -20, 25 -20, 25	7C263-3	5, 45, 55 5, 45, 55 5, 45, 55	
Parameter	Description	Test Conditio	ns	Min.	Max.	Min.	Max.	Unit
V <sub>OH</sub>	Output HIGH Voltage	$V_{CC} = Min., I_{OH} = -2.$	0 mA	2.4				V
V <sub>OH</sub>	Output HIGH Voltage	$V_{CC} = Min., I_{OH} = -4.$	0 mA			2.4		V
V <sub>OL</sub>	Output LOW Voltage	$V_{CC} = Min., I_{OL} = 8 \text{ m}$ (6 mA Mil)	ıΑ		0.4			V
V <sub>OL</sub>	Output LOW Voltage	V <sub>CC</sub> = Min., I <sub>OL</sub> = 16	mA				0.4	V
V <sub>IH</sub>	Input HIGH Level			2.0		2.0		V
V <sub>IL</sub>	Input LOW Level				0.8		0.8	V
I <sub>IX</sub>	Input Current	$GND \leq V_{IN} \leq V_{CC}$		-10	+10	-10	+10	μΑ
V <sub>CD</sub>	Input Diode Clamp Voltage			No	te 4	No	te 4	
I <sub>OZ</sub>	Output Leakage Current	$GND \leq V_{OUT} \leq V_{CC}$	Com'l	-10	+10	-10	+10	μΑ
		Output Disabled	Mil	-40	+40	-40	+40	μΑ
I <sub>OS</sub>	Output Short Circuit Current <sup>[5]</sup>	$V_{CC} = Max., V_{OUT} = GI$	ND	-20	-90	-20	-90	mA
I <sub>CC</sub>	Power Supply Current	$V_{CC} = Max., f = Max.$	Com'l		120		100	mA
		$I_{OUT} = 0 \text{ mA}$	Mil		140		120	
I <sub>SB</sub>	Standby Supply Current (7C261)	$\frac{V_{CC}}{CS} = Max.,$	Com'l		40		30	mA
		CS ≥ V <sub>IH</sub>	Mil		40		30	
V <sub>PP</sub>	Programming Supply Voltage			12	13	12	13	V
I <sub>PP</sub>	Programming Supply Current				50		50	mA
V <sub>IHP</sub>	Input HIGH Programming Voltage			4.75		4.75		V
V <sub>ILP</sub>	Input LOW Programming Voltage				0.4		0.4	V

## Capacitance<sup>[4]</sup>

Parameter	Description	Test Conditions	Max.	Unit
C <sub>IN</sub>	Input Capacitance	$T_A = 25^{\circ}C, f = 1 \text{ MHz},$	10	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC} = 5.0V$	10	pF

#### Notes:

See the last page of this specification for Group A subgroup testing information.

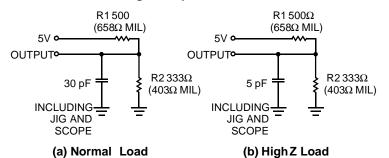
See the "Introduction to CMOS PROMs" section of the Cypress Data Book for general information on testing.

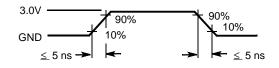
For test purposes, not more than one output at a time should be shorted. Short circuit test duration should not exceed 30 seconds.]



#### AC Test Loads and Waveforms[4]

#### Test Load for -20 through -30 speeds

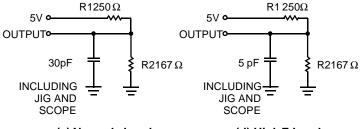




Equivalent to: THÉVENIN EQUIVALENT R<sub>TH</sub> 200Ω (250Ω MIL)

OUTPUT O 2.0V(1.9VMIL)

#### Test Load for -35 through -55 speeds



(c) Normal Load

(d) High Z Load

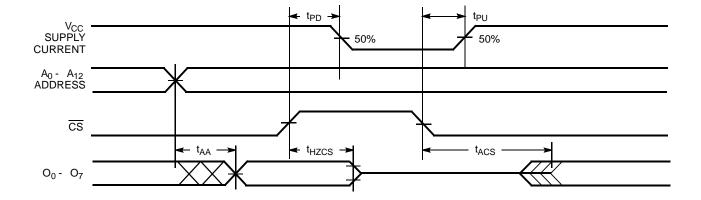
Equivalent to: THÉVENIN EQUIVALENT OUTPUT  $\bigcirc$  R<sub>TH</sub>  $100\Omega$   $\bigcirc$  2.0V

### **Switching Characteristics** Over the Operating Range [1,3,4]

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



#### Switching Waveforms<sup>[4]</sup>



#### **Erasure 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 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 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 (VFY) signal. Pins 22 and 23 should never be active LOW at the same time. The PROGRAM mode exists when PGM is LOW, and VFY is HIGH. The verify mode exists when the reverse is true, PGM HIGH and VFY LOW and the program inhibit mode is entered with both PGM and VFY HIGH. Program inhibit is specifically provided to allow data to be placed on and removed from the data pins without conflict

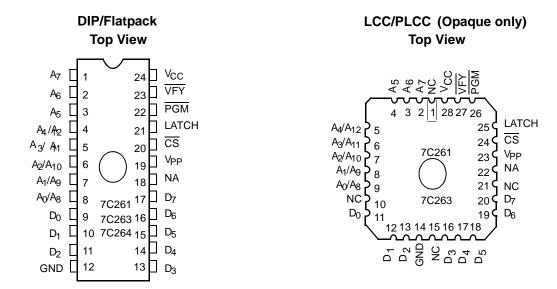
**Table 1. Mode Selection** 

				Pi	n Function <sup>[</sup>	6, 7]		
	Read or Output Disable	A <sub>12</sub>	A <sub>11</sub>	A <sub>10</sub>	A <sub>9</sub>	A <sub>8</sub>	CS	O <sub>7</sub> -O <sub>0</sub>
Mode	Program	NA	V <sub>PP</sub>	LATCH	PGM	VFY	CS	D <sub>7</sub> –D <sub>0</sub>
Read		A <sub>12</sub>	A <sub>11</sub>	A <sub>10</sub>	A <sub>9</sub>	A <sub>8</sub>	V <sub>IL</sub>	O <sub>7</sub> -O <sub>0</sub>
Output	Disable	A <sub>12</sub>	A <sub>11</sub>	A <sub>10</sub>	A <sub>9</sub>	A <sub>8</sub>	V <sub>IH</sub>	High Z
Prograi	m	V <sub>ILP</sub>	V <sub>PP</sub>	V <sub>ILP</sub>	V <sub>ILP</sub>	V <sub>IHP</sub>	V <sub>ILP</sub>	D <sub>7</sub> D <sub>0</sub>
Prograi	m Inhibit	V <sub>ILP</sub>	V <sub>PP</sub>	V <sub>ILP</sub>	V <sub>IHP</sub>	V <sub>IHP</sub>	V <sub>ILP</sub>	High Z
Program Verify		V <sub>ILP</sub>	$V_{PP}$	V <sub>ILP</sub>	V <sub>IHP</sub>	V <sub>ILP</sub>	$V_{ILP}$	O <sub>7</sub> -O <sub>0</sub>
Blank Check		V <sub>ILP</sub>	$V_{PP}$	$V_{ILP}$	V <sub>IHP</sub>	$V_{ILP}$	$V_{ILP}$	O <sub>7</sub> -O <sub>0</sub>

#### Notes:

- 6. X = "don't care" but not to exceed  $V_{CC} \pm 5$ %.
- Addresses A<sub>8</sub>-A<sub>12</sub> must be latched through lines A<sub>0</sub>-A<sub>4</sub> in programming modes.





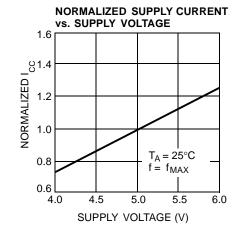
**Figure 1. Programming Pinouts** 

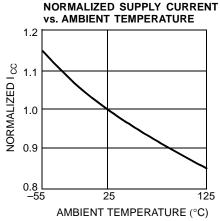
#### **Programming Information**

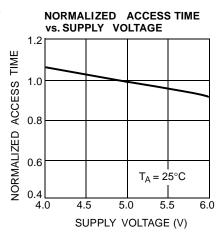
Programming support is available from Cypress as well as from a number of third-party software vendors. For detailed programming information, including a listing of software packages, please see the PROM Programming Information located at the end of this section. Programming algorithms can be obtained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

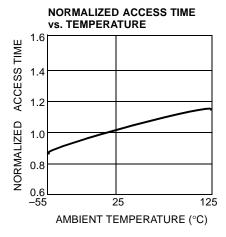


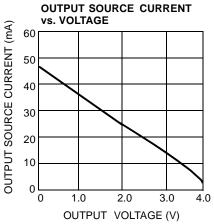
### Typical DC and AC Characteristics

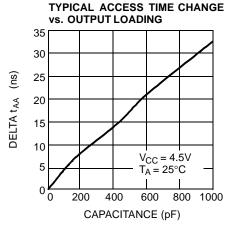


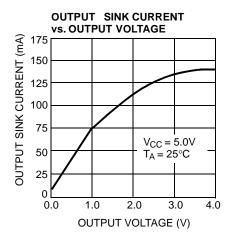


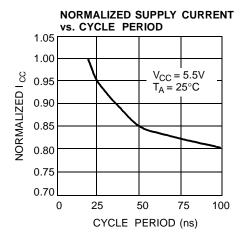












## CY7C261 CY7C263/CY7C264



## **Ordering Information**

CY7C261-20WC   W14   24-Lead (300-Mil) Windowed CerDIP	perating Range
25	mercial
CY7C261-25PC         P13         24-Lead (300-Mil) Molded DIP           CY7C261-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           35         CY7C261-35PC         P13         24-Lead (300-Mil) Molded DIP         Common           CY7C261-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C261-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C261-45PC         P13         224-Lead (300-Mil) Windowed CerDIP         Common           CY7C261-45WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C261-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Common           20         CY7C261-55WC         W14         24-Lead (300-Mil) Windowed CerDIP         Common           20         CY7C263-20PC         P13         24-Lead (300-Mil) Windowed CerDIP         Common           25         CY7C263-25UC         W14         24-Lead (300-Mil) Windowed CerDIP         Common           25         CY7C263-25DC         J64         28-Lead Plastic Leaded Chip Carrier         Common           CY7C263-25DMB         D14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25QMB	
CY7C261-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           35         CY7C261-35PC         P13         24-Lead (300-Mil) Molded DIP         Common           CY7C261-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C261-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C261-45PC         P13         224-Lead (300-Mil) Windowed CerDIP         Common           CY7C261-45WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C261-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Common           20         CY7C261-55WC         W14         24-Lead (300-Mil) Windowed CerDIP         Common           20         CY7C263-20JC         J64         28-Lead Plastic Leaded Chip Carrier         Common           CY7C263-20PC         P13         24-Lead (300-Mil) Windowed CerDIP         Common           CY7C263-25DC         W14         24-Lead (300-Mil) Windowed CerDIP         Common           CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier         Common           CY7C263-35WC         W1	mercial
CY7C261-35PC	
CY7C261-35WC   W14   24-Lead (300-Mil) Windowed CerDIP   Milita	ıry
CY7C261-35WMB   W14   24-Lead (300-Mil) Windowed CerDIP   Milita	mercial
CY7C261-45PC	
CY7C261-45WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C261-55WC         W14         24-Lead (300-Mil) Windowed CerDIP         Coming           20         CY7C263-20JC         J64         28-Lead Plastic Leaded Chip Carrier         Coming           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         Coming         CY7C263-25PC         P13         24-Lead (300-Mil) Windowed CerDIP         CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25DMB         D14         24-Lead (300-Mil) Windowed CerDIP         Milita         CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier         CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Coming           35         CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Coming         CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Ch	ıry
CY7C261-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C261-55WC         W14         24-Lead (300-Mil) Windowed CerDIP         Comin           20         CY7C263-20JC         J64         28-Lead Plastic Leaded Chip Carrier         Comin           CY7C263-20PC         P13         24-Lead (300-Mil) Molded DIP         CY7C263-25UC         W14         24-Lead (300-Mil) Windowed CerDIP           25         CY7C263-25JC         J64         28-Lead Plastic Leaded Chip Carrier         Comin           CY7C263-25PC         P13         24-Lead (300-Mil) Molded DIP         CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25DMB         D14         24-Lead (300-Mil) Windowed Leadless Chip Carrier         Milita         CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         CY7C263-35WC         P13         24-Lead (300-Mil) Windowed CerDIP         Comin           35         CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           55         CY7C263-55DI <td>mercial</td>	mercial
55         CY7C261-55WC         W14         24-Lead (300-Mil) Windowed CerDIP         Commodition           20         CY7C263-20JC         J64         28-Lead Plastic Leaded Chip Carrier         Commodition           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         Commodition           CY7C263-25PC         P13         24-Lead (300-Mil) Molded DIP         CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25DMB         D14         24-Lead (300-Mil) CerDIP         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier         CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Commodition           35         CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Commodition         CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC	
20         CY7C263-20JC         J64         28-Lead Plastic Leaded Chip Carrier         Come           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         Come           CY7C263-25PC         P13         24-Lead (300-Mil) Molded DIP         CY7C263-25WC           CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25DMB         D14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Come           CY7C263-35PC         P13         24-Lead (300-Mil) Windowed CerDIP         Come           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Come	ry
CY7C263-20PC	mercial
CY7C263-20WC         W14         24-Lead (300-Mil) Windowed CerDIP           25         CY7C263-25JC         J64         28-Lead Plastic Leaded Chip Carrier         Come           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         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Windowed CerDIP           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Com	mercial
CY7C263-25JC         J64         28-Lead Plastic Leaded Chip Carrier         Common Cy7C263-25PC         P13         24-Lead (300-Mil) Molded DIP           CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-25DMB         D14         24-Lead (300-Mil) CerDIP         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           CY7C263-35PC         P13         24-Lead (300-Mil) Molded DIP         Common Common CerDIP           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Industrier           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Common Common Common Certain         Common Certain         Industrier	
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         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Common Common CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Windowed CerDIP         CerDIP           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Industrial Industrial Certain Certa	
CY7C263-25WC         W14         24-Lead (300-Mil) Windowed CerDIP           CY7C263-25DMB         D14         24-Lead (300-Mil) CerDIP         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Molded DIP         Comin           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Comin	mercial
CY7C263-25DMB         D14         24-Lead (300-Mil) CerDIP         Milita           CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Molded DIP         Common CerDIP           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Industries           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Common Com	
CY7C263-25QMB         Q64         28-Pin Windowed Leadless Chip Carrier           CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Molded DIP         Coming           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Industry           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Coming	
CY7C263-25WMB         W14         24-Lead (300-Mil) Windowed CerDIP           35         CY7C263-35PC         P13         24-Lead (300-Mil) Molded DIP         Coming           CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Coming	ry
CY7C263-35PC	
CY7C263-35WC         W14         24-Lead (300-Mil) Windowed CerDIP           CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Common Comm	
CY7C263-35WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Common	mercial
45         CY7C263-45WMB         W14         24-Lead (300-Mil) Windowed CerDIP         Milita           55         CY7C263-55JI         J64         28-Lead Plastic Leaded Chip Carrier         Indus           CY7C263-55PC         P13         24-Lead (300-Mil) Molded DIP         Common Commo	
55 CY7C263-55JI J64 28-Lead Plastic Leaded Chip Carrier Indus CY7C263-55PC P13 24-Lead (300-Mil) Molded DIP Comm	ry
CY7C263-55PC P13 24-Lead (300-Mil) Molded DIP Comm	ry
	strial
CY7C263-55WMB W14 24-Lead (300-Mil) Windowed CerDIP Milita	mercial
2.1.223 33.1.1.12	ry
35 CY7C264-35PC P11 24-Lead (600-Mil) Molded DIP Com	mercial
45 CY7C264-45WC W12 24-Lead (600-Mil) Windowed CerDIP Com	mercial
CY7C264-45WMB W12 24-Lead (600-Mil) Windowed CerDIP Milita	ry
55 CY7C264-55WC W12 24-Lead (600-Mil) Windowed CerDIP Com	mercial



## **MILITARY SPECIFICATION Group A Subgroup Testing**

## **DC Characteristics**

Parameter	Subgroups
V <sub>OH</sub>	1, 2, 3
V <sub>OL</sub>	1, 2, 3
V <sub>IH</sub>	1, 2, 3
V <sub>IL</sub>	1, 2, 3
I <sub>IX</sub>	1, 2, 3
l <sub>OZ</sub>	1, 2, 3
Icc	1, 2, 3
I <sub>SB</sub> <sup>[8]</sup>	1, 2, 3

## **Switching Characteristics**

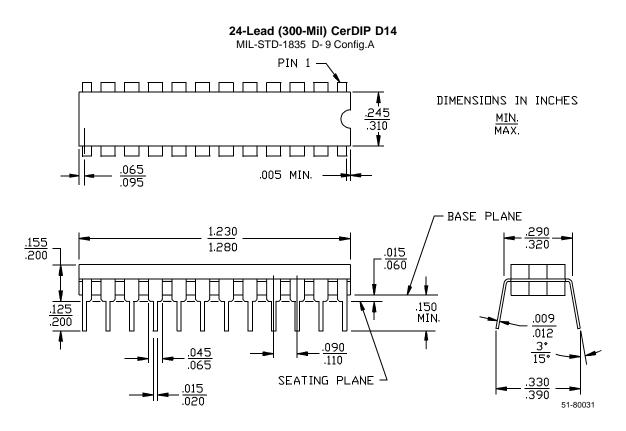
Parameter	Subgroups
t <sub>AA</sub>	7, 8, 9, 10, 11
t <sub>ACS1</sub> <sup>[9]</sup>	7, 8, 9, 10, 11
t <sub>ACS2</sub> <sup>[8]</sup>	7, 8, 9, 10, 11

#### Notes:

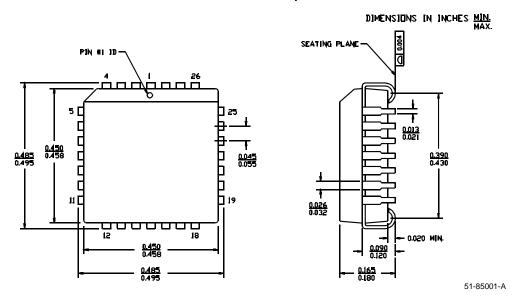
7C261 only.
 7C263 and 7C264 only.



### **Package Diagrams**



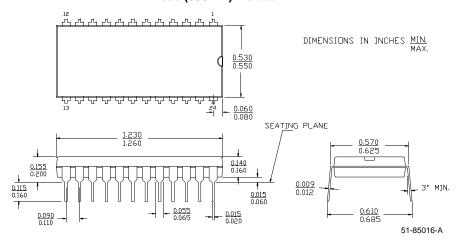
#### 28-Lead Plastic Leaded Chip Carrier J64



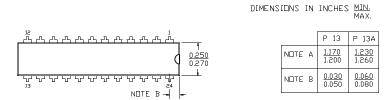


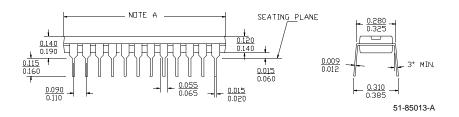
## Package Diagrams (continued)

### 24-Lead (600-Mil) Molded DIP P11



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

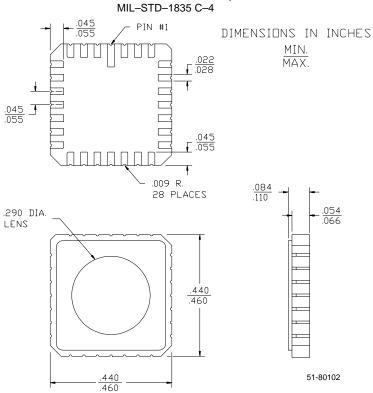






## Package Diagrams (continued)

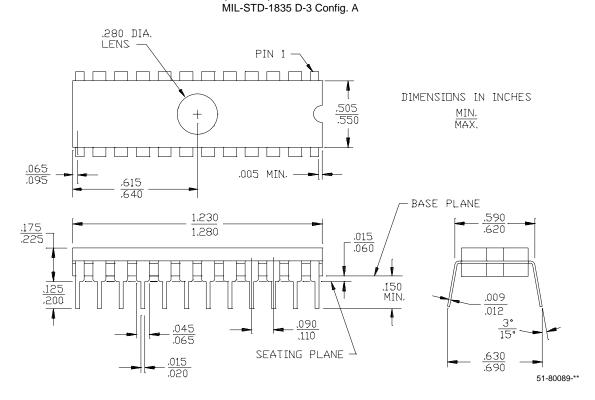
#### 28-Pin Windowed Leadless Chip Carrier Q64



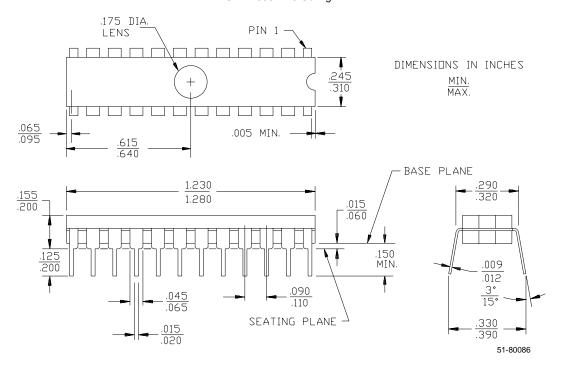


#### Package Diagrams (continued)

## 24-Lead (600-Mil) Windowed CerDIP W12



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



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# **Document History Page**

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REV.	ECN NO.	Issue Date	Orig. of Change	Description of Change	
**	113866	3/6/02	DSG	Change from Spec number: 38-00005 to 38-04010	
*A	118895	10/09/02	GBI	Update Ordering Information	
*B	122251	12/28/02	RBI	Add power up requirements to Maximum Ratings information	