



C Electronics Inc.

μPD43256A **32,768 x 8-Bit** **Static CMOS RAM**

Description

μPD43256A is a 32,768-word by 8-bit static RAM fabricated with advanced silicon-gate technology. Its design uses CMOS peripheral circuits and N-channel memory cells with polysilicon resistors to make μPD43256A a high-speed device that requires very low power and no clock or refreshing.

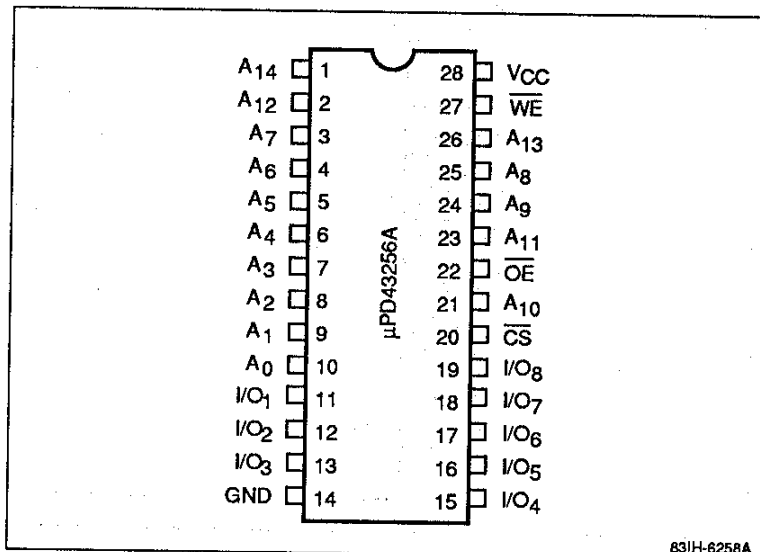
Minimum standby power is drawn when $\overline{CS}$ is high, independent of the other inputs' levels. Data retention is guaranteed at a power supply voltage as low as 2 V. The μPD43256A is available in standard 28-pin plastic DIP, 28-pin plastic miniflat, or 32-pin plastic TSOP packaging.

Features

- Single +5-volt power supply
- Fully static operation—no clock or refreshing required
- Compatible inputs and outputs
- Common I/O using three-state outputs
- One $\overline{CS}$ pin and one $\overline{OE}$ pin for easy application
- Data retention of 2 V minimum
- Standard 28-pin plastic DIP and miniflat packaging
- Standard 32-pin plastic TSOP packaging
- Available in either normal or reverse bent leads

Pin Configurations

28-Pin Plastic DIP or Miniflat

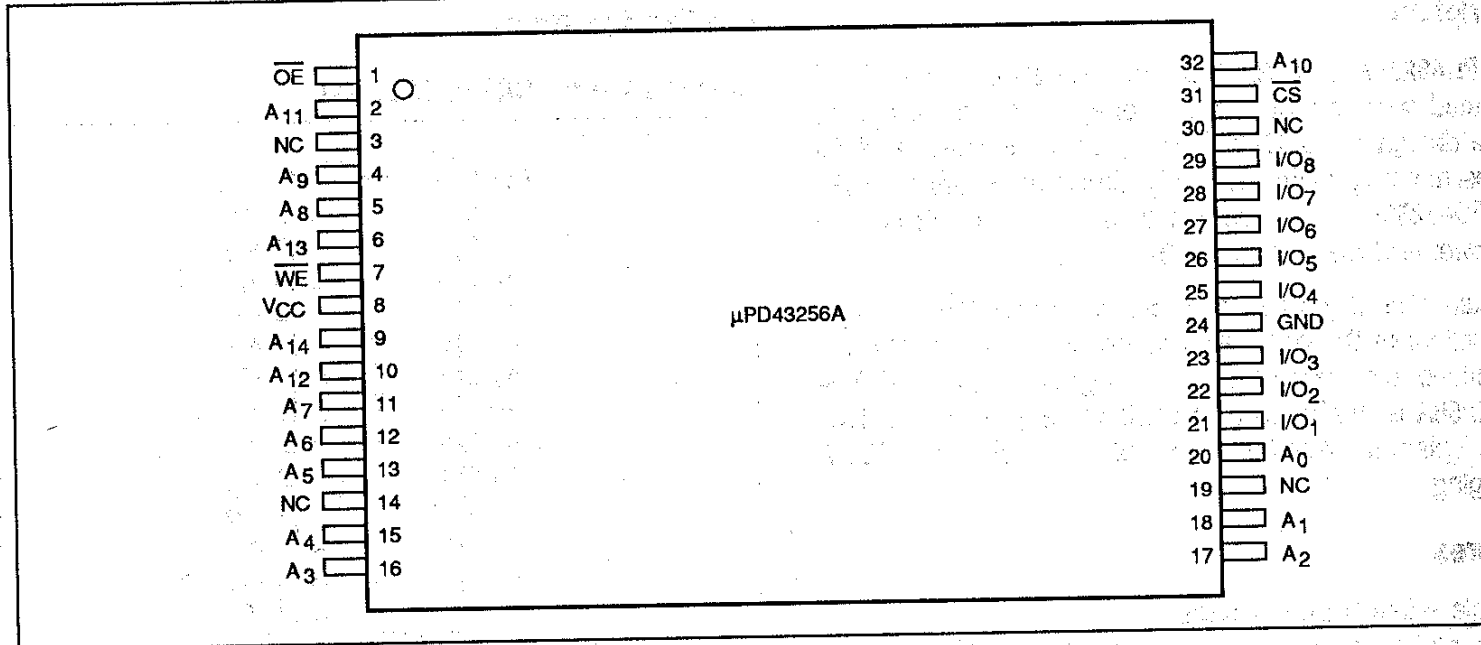


Pin Identification

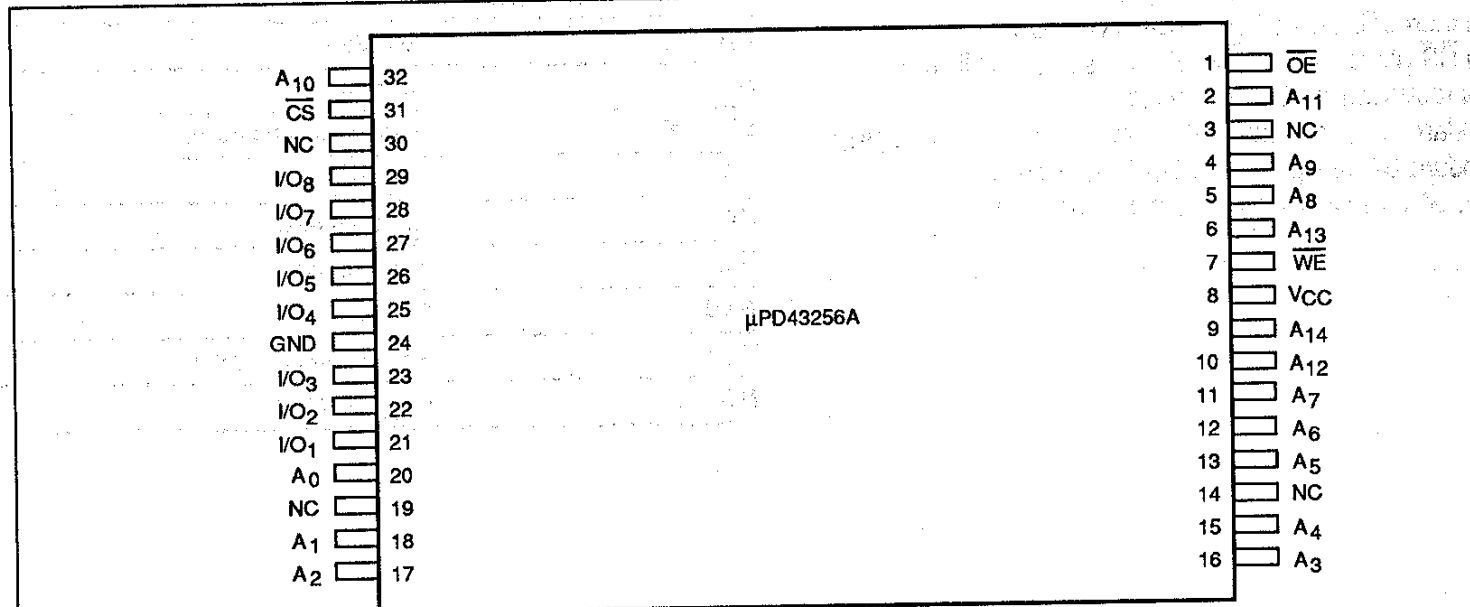
Symbol	Function
$A_0 - A_{14}$	Address Inputs
$I/O_1 - I/O_8$	Data Inputs and outputs
$\overline{CS}$	Chip select
$\overline{OE}$	Output enable
$\overline{WE}$	Write enable
GND	Ground
V_{CC}	+5-volt power supply
NC	No connection

Pin Configurations (cont)

32-Pin Plastic TSOP (normal leads, top view)



32-Pin Plastic TSOP (reverse bent leads, bottom view)



Notes:

- [1] This package is designed to be mounted with the top of the package closest to the mounting surface. In this position, the exposed side will be the bottom of the package.

Ordering Information

Part Number	Access Time (max)	Data Retention Current (max) $T_A = 0 \text{ to } 70^\circ\text{C}$	Package
μ PD43256AC-85L	85 ns	50 μ A	28-pin plastic DIP (600 mil)
C-12L	120 ns		
C-15L	150 ns		
μ PD43256AC-85LL	85 ns	20 μ A	28-pin plastic DIP (600 mil)
C-10LL	100 ns		
C-12LL	120 ns		
C-15LL	150 ns		
μ PD43256AGU-85L	85 ns	50 μ A	28-pin plastic miniflat
GU-10L	100 ns		
GU-12L	120 ns		
GU-15L	150 ns		
μ PD43256AGU-85LL	85 ns	20 μ A	28-pin plastic miniflat
GU-10LL	100 ns		
GU-12LL	120 ns		
GU-15LL	150 ns		
μ PD43256AGX-10L-EJA	100 ns	50 μ A	32-pin plastic TSOP (normal leads)
GX-12L-EJA	120 ns		
μ PD43256AGX-10LL-EJA	100 ns	20 μ A	32-pin plastic TSOP (normal leads)
GX-12LL-EJA	120 ns		
μ PD43256AGX-10L-EKA	100 ns	50 μ A	32-pin plastic TSOP (reverse bent leads)
GX-12L-EKA	120 ns		
μ PD43256AGX-10LL-EKA	100 ns	20 μ A	32-pin plastic TSOP (reverse bent leads)
GX-12LL-EKA	120 ns		