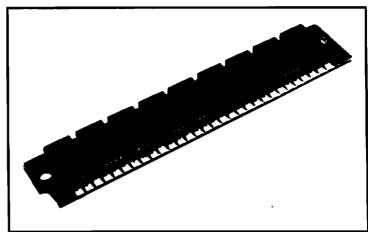


AK49256S/AK49256G 262,144 x 9 bit NMOS Dynamic Random Access Memory

DESCRIPTION

The Accutek AK49256 high density memory module is a random access memory organized in 256K x 9 bit words. The assembly consists of nine 256K x 1 DRAMs in plastic leaded chip carriers (PLCC) mounted to a printed circuit board. The module can be configured as a leadless 30 pad SIMM or a leaded 30 pin SIP. This packaging approach provides a 6 to 1 density increase over standard DIP packaging.

The operation of the AK49256 is identical to nine 256K dynamic RAMs. For the lower eight bits, the data input is tied to the data output and brought out separately for each device, with common RAS, \overline{CAS} and \overline{WE} control. This common I/O feature dictates the use of early-write cycles to prevent contention of D and Q. Since the Write-Enable (\overline{WE}) signal must always go low before \overline{CAS} in a write cycle, Read-Write and Read-Modify-Write operation is not possible. For the ninth bit, the data input (D₉) and data output (Q₉) pins are brought out separately and controlled by a separate \overline{CAS} 9 for that bit. Bit nine is generally used for parity.



FEATURES

- 262,144 x 9 bit organization
- Optional 30 Pad SĪMM (Single In-line Memory Module) or 30 Pin leaded SIP (Single In-line Package)
- JEDEC approved pinout
- Common CAS, RAS and WE control for eight common D and Q lines
- Separate CAS control for one separate pair of D and Q lines
- 3.15 Watt active and 205 mW standby (max)
- Operating free air temperature: 0°C to 70°C
- Upward compatible with AK491024

PIN NOMENCLATURE

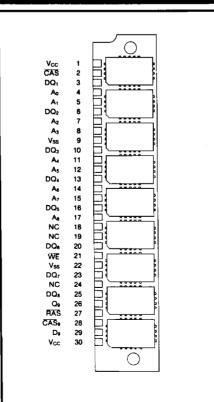
DQ1-DQ8	Data In/Data Out
D ₉	Data In - Parity Bit
Qu	Data Out - Parity Bit
A ₀ - A ₈	Address Inputs
CAS	Column Address Strobe
RAS	Row Address Strobe
WE	Write Enable
Vcc	5v Supply
Vss	Ground
NC	No Connection

MODULE OPTIONS

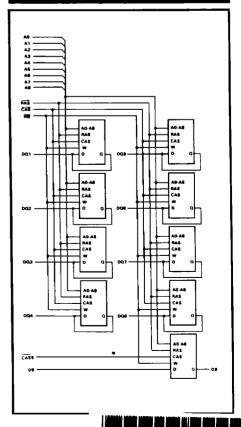
Single Inline Memory Modu	
Leaded SIP: AK49256G	
Single Inline Package	

Leadless SIMM: AK49256S

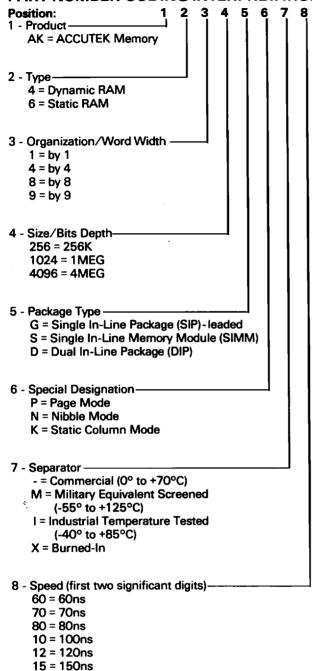
PIN ASSIGNMENT



FUNCTIONAL DIAGRAM



ORDERING INFORMATION PART NUMBER CODING INTERPRETATION



The numbers and coding combinations on this page do not include all variations available, but are shown as examples of most widely used variations. Contact Accutek if other information is required.

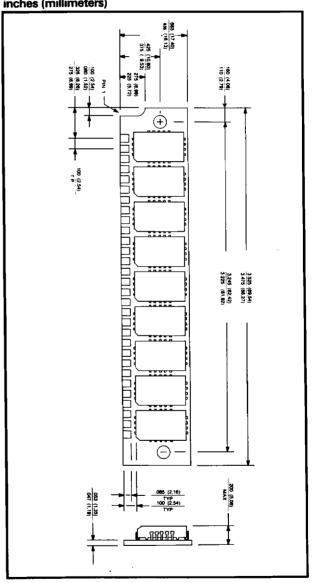
EXAMPLES:

AK48256SP-12 256K x 8 Dynamic RAM, SIMM, Page Mode, Commercial, 120nS Access Time

AK49256GP-10 256K x 9 Dynamic RAM, leaded SIP, Page Mode Commercial, 100nS Access Time

MECHANICAL DIMENSIONS

inches (millimeters)





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