

# **DESCRIPTION**

The Accutek AK62464 SRAM Module consists of fast high performance SRAMs mounted on a low profile, 64 pin ZIP Board. The module utilizes six 28 pin 64K x 4 SRAMs in 300 mil SOJ packages and three decoupling capacitors mounted on the top side and two 28 pin 64K x 4 SRAMs in 300 mil SOJ packages and three decoupling capacitors mounted on the bottom side of a printed circuit board.

The SRAMs used have common I/O functions and <u>single</u> output enable functions. Also, three separate chip select (CE) connections are used to independently enable the three bytes. The modules can be supplied in a variety of access time values from 8nSEC to 20nSEC in CMOS or BiCMOS technology.

The Accutek module is designed to have a maximum seated height of 0.500 inch to provide for the lowest height off the board. The modules conform to JEDEC - standard sizes and pin-out configurations. Using two pins for module memory density identification,  $PD_0$  and  $PD_1$ , minimizes interchangeability and design considerations when changing from one module size to the other in customer applications.

### **FEATURES**

 $A_0 - A_{15}$ 

 $\overline{\mathsf{OF}}$ 

Vcc

Vss

WE

NC

CE<sub>1</sub> - CE<sub>3</sub>

DQ1 - DQ24

PD<sub>0</sub> - PD<sub>1</sub>

- 65,536 x 24 bit organization
- · JEDEC Standard 64 pin ZIP format
- Common I/O, single OE functions with four separate chip selects (CE)

Address Inputs

Data In/Data Out

Presence Detect

**Output Enable** 

Power Supply

Write Enable

No Connect

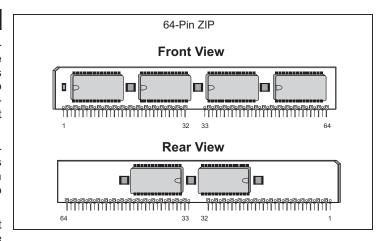
Ground

**MODULE OPTIONS** 

Chip Enable

- · Low height 0.500 inch maximum
- · Upward compatible with

# AK62464Z 65,536 x 24 Bit CMOS/BiCMOS Static Random Access Memory



- Presence Detect, PD<sub>0</sub> and PD<sub>1</sub> for identifying module density
- Fast Access Times range from 8 nSEC BiCMOS to 20 nSEC CMOS
- · TTL-compatible inputs and outputs
- Single 5 volt power supply AK62464Z
- Single 3.3 volt power supply AK62464Z/3.3
- Operating temperature range in free air, 0<sup>0</sup>C to 70<sup>0</sup>C
- Power

900 mA Max Active (12 nS)

840 mA Max Active (15 nS)

780 mA Max Active (20 nS)

240 mA Max Standby (Cycling)

12 mA Max Standby (f=0MHZ)

#### PIN NOMENCLATURE

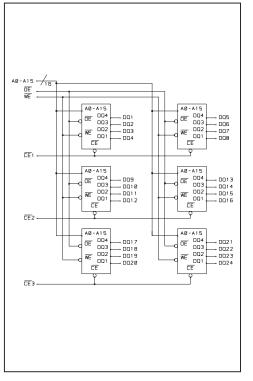
#### PIN ASSIGNMENT

PIN#	SYMBOL	PIN#	SYMBOL	PIN#	SYMBOL	PIN#	SYMBOL
1	Vss	17	A2	33	NC	49	A4
2	PD0	18	A9	34	CE3	50	A11
3	PD1	19	DQ9	35	NC	51	A5
4	DQ1	20	DQ5	36	NC	52	A12
5	NC	21	DQ10	37	ŌE	53	Vcc
6	DQ2	22	DQ6	38	Vss	54	A <sub>13</sub>
7	NC	23	DQ11	39	DQ13	55	A6
8	DQ3	24	DQ7	40	DQ17	56	DQ21
9	NC	25	DQ12	41	DQ14	57	NC
10	DQ4	26	DQ8	42	DQ18	58	DQ22
11	NC	27	Vss	43	DQ15	59	NC
12	Vcc	28	WE	44	DQ19	60	DQ23
13	A0	29	A15	45	DQ16	61	NC
14	A7	30	A14	46	DQ20	62	DQ24
15	A1	31	CE2	47	A3	63	NC
16	A8	32	CE1	48	A10	64	Vss

# Leadless ZIP: AK62464Z

 $PD_0 = Open$  $PD_1 = Vss$ 

#### **FUNCTIONAL DIAGRAM**



#### **ORDERING INFORMATION**

# PART NUMBER CODING INTERPRETATION

Position 1 2 3 4 5 6 7 8

#### 1 Product

AK = Accutek Memory

2 Type

4 = Dynamic RAM

5 = CMOS Dynamic RAM

6 = Static RAM

3 Organization/Word Width

1 = by 1 16 = by 16 4 = by 4 32 = by 32

8 = by 8 36 = by 36

9 = by 9

4 Size/Bits Depth

5 Package Type

G = Single In-Line Package (SIP)

S = Single In-Line Module (SIM)

D = Dual In-Line Package (DIP)

W = .050 inch Pitch Edge Connect

Z = Zig-Zag In-Line Package (ZIP)

Special Designation

P = Page Mode

N = Nibble Mode

K = Static Column Mode

W = Write Per Bit Mode

V = Video Ram

7 Separator

- = Commercial  $0^{\circ}$ C to + $70^{\circ}$ C

M = Military Equivalent Screened

(-55°C to +125°C)

I = Industrial Temperature Tested

(-45°C to +85°C)

X = Burned In

8 Speed (first two significant digits)

DRAMS SRAMS

50 = 50 nS 12 = 12 nS 60 = 60 nS 15 = 15 nS 70 = 70 nS 20 = 20 nS

80 = 80 nS 25 = 25 nS

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

#### **EXAMPLES:**

#### AK62464Z-12

64K x 24, 12 nSEC SRAM Module, ZIP Configuration



# ACCUTEK MICROCIRCUIT CORPORATION

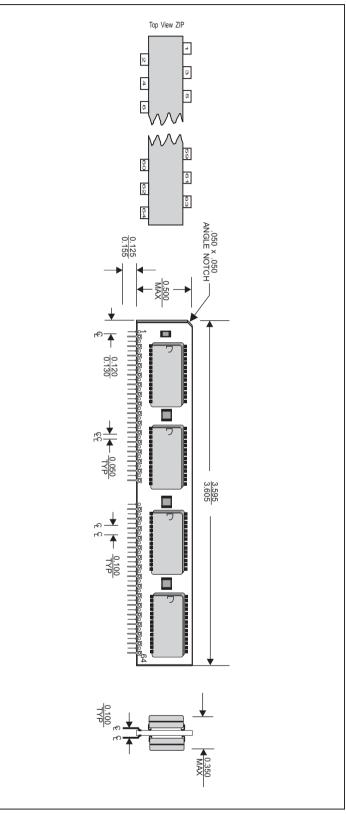
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# **MECHANICAL DIMENSIONS**

Inches



Accutek reserves the right to make changes in specifications at any time and without notice. Accutek does not assume any responsibility for the use of any circuitry described; no circuit patent licenses are implied. Preliminary data sheets contain minimum and maximum limits based upon design objectives, which are subject to change upon full characterization over the specific operating conditions.