



MICROTECH

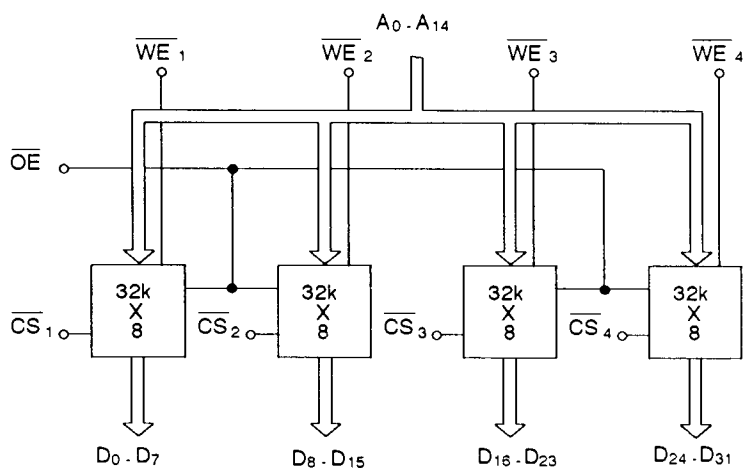
μT8S128

μT8 series 128k - Byte Static RAM module

Features

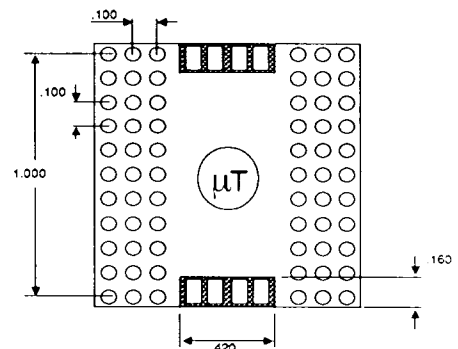
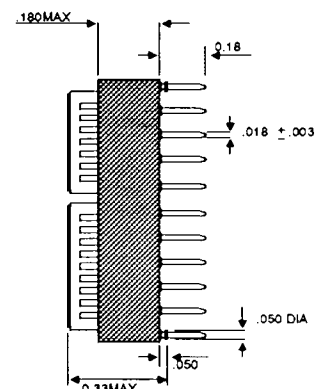
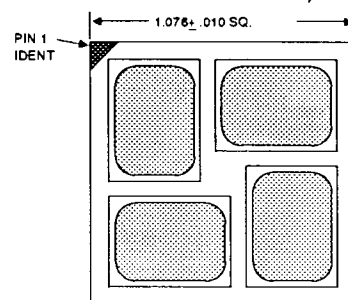
- User selectable path width - 8,16 or 32 bits
- Single 5V power supply
- Very fast access times - 70/85/100ns
- Full military temperature range
- Battery back-up operation
- On-board decoupling capacitors
- BS9400 approval pending
- TTL compatible inputs and outputs

Block Diagram

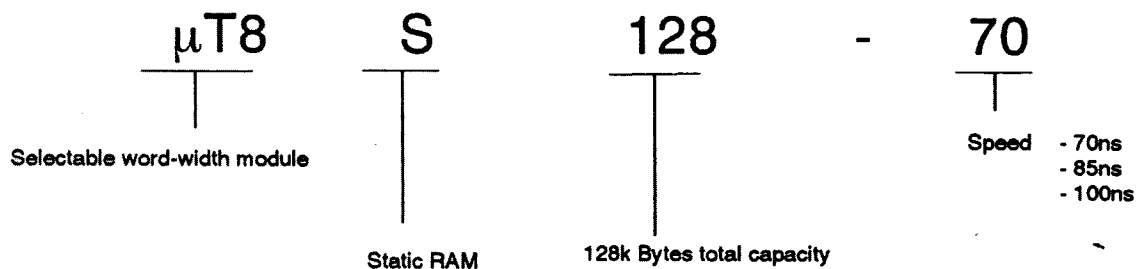


Package Details

(Dimensions in inches)



Ordering Information



Mode Selection

MODE	$\overline{\text{CS}}$	$\overline{\text{OE}}$	$\overline{\text{WE}}$	V_{CC}	OUTPUTS
Standby	V_{IH}	X	X	V_{CC}	High Z
Output Disable	V_{IL}	V_{IH}	V_{IH}	V_{CC}	High Z
Read	V_{IL}	V_{IL}	V_{IH}	V_{CC}	DOUT
Write	V_{IL}	X	V_{IL}	V_{CC}	DIN
Battery back-up	$V_{\text{CC}} - 0.2$	X	X	2.0V	High Z

Read Cycle (Over full temperature range)

(All units in ns)

Item	Symbol	-70		-85		-100	
		min.	max.	min.	max.	min.	max.
Read Cycle Time	t _{RC}	70	-	85	-	100	-
Address Access Time	t _{AA}	-	70	-	85	-	100
Chip Select Access Time	t _{ACS}	-	70	-	85	-	100
Output Enable to Output Valid	t _{OE}	-	35	-	45	-	50
Output Hold from Address Change	t _{OH}	5	-	5	-	10	-
Chip Selection to Output Low Z	t _{CLZ}	10	-	10	-	10	-
Output Enable to Output in Low Z	t _{CLZ}	5	-	5	-	5	-
Chip Deselection to Output in High Z	t _{CHZ}	0	30	0	30	0	35
Output Disable to Output in High Z	t _{OHZ}	0	30	0	30	0	35

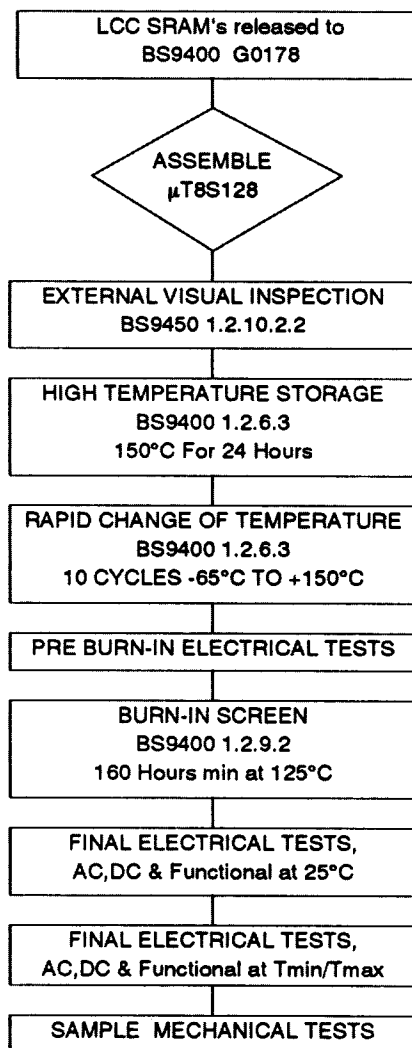
Pin Assignments

1	12	23			34	45	56
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○	TOP		○	○	○
○	○	○	VIEW		○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
○	○	○			○	○	○
11	22	33			44	55	66

Pin Names

A0-A14	Address Inputs
D0-D31	Data
$\overline{\text{CS}}1-4$	Chip Selects
$\overline{\text{OE}}$	Output Enable
$\overline{\text{WE}}1-4$	Write Enables
VCC	Power (+5V)
GND	Ground

μT8 MODULE FLOW

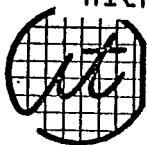
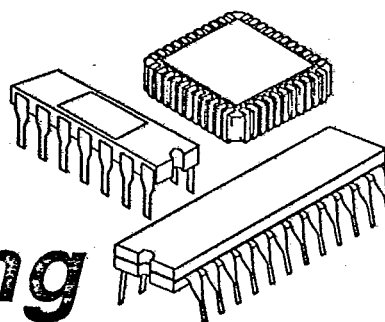


Power Consumption (Operating average)

8 bit data - 80mA maximum	32 bit data - 280mA maximum
16 bit data - 145mA maximum	Standby mode - 8mA maximum

MICROTECH

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**MICROTECH**

Custom Packaging

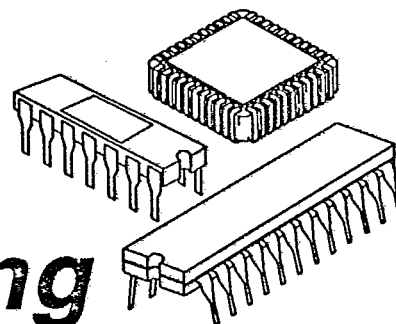
Microtech Semiconductors are leaders in Custom assembly, with our considerable expertise in production and test, we can satisfy the most complex requirement.

We are equipped to assemble virtually any hermetic package style - LCC, JLCC, Quad Pack, PGA & SOT 23 to name but a few. Using proven techniques, such as multichip or multicavity design, our expert engineering, with class 1000 cleanroom assembly and final test, assures quality results.

From commercial to space applications Microtech Semiconductors will support your assembly needs.

**MICROTECH**

T-90-20



Custom Packaging

Approved to CECC and BS9000, hallmarks of European quality, MICROTECH Semiconductors is totally committed to total quality. Dedicated to supporting the high-reliability equipment manufacturer, our integrated circuits are produced in Class 1000 cleanroom conditions. Final optical inspection takes place under better than Class 100 laminar flow and our impressive range of environmental and electrical test equipment ensures that we release high performance components with no compromise on reliability.

CUSTOM PACKAGING