MICROTECH

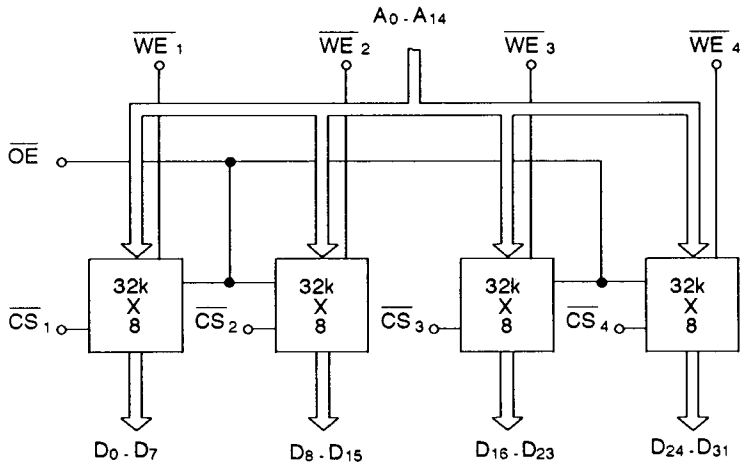
µT8E128

µT8 series 128k - Byte E^2 PROM module

Features

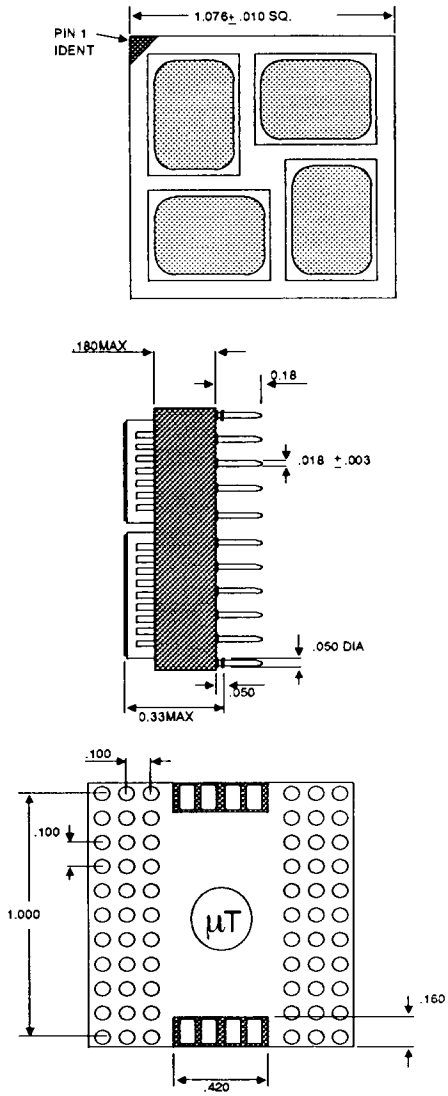
- User selectable path width - 8,16 or 32 bits
- Single 5V power supply
- Fast access times - 250/300/350ns
- Full military temperature range
- On chip timer - automatic erase before write
- On-board decoupling capacitors
- 10 year data retention
- BS9400 approval pending
- TTL compatible inputs and outputs

Block Diagram



Package Details

(Dimensions in inches)



Ordering Information

µT8 E 128 - 250

- µT8: Selectable word-width module
- E: Electrically erasable PROM
- 128: 128k Bytes total capacity
- 250: Speed - 250ns / - 300ns / - 350ns

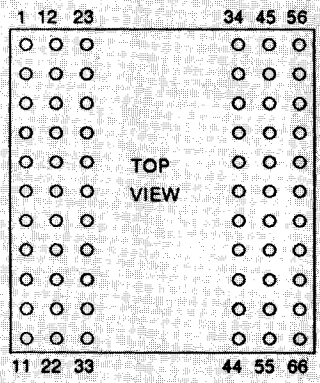
Mode Selection

MODE	$\overline{CS}$	$\overline{OE}$	$\overline{WE}$	Vcc	OUTPUTS
Standby	V_{IH}	X	X	Vcc	High Z
Write inhibit	X	X V_{IL}	V_{IH} X	Vcc	High Z/DOUT
Read	V_{IL}	V_{IL}	V_{IH}	Vcc	DOUT
Write	V_{IL}	V_{IH}	V_{IL}	Vcc	DIN
Chip erase	V_{IL}	12V	V_{IL}	Vcc	X

Read Cycle (Over full temperature range)
(All units in ns)

Item	Symbol	-250		-300		-350	
		min.	max.	min.	max.	min.	max.
Read Cycle Time	t_{RC}	250	-	300	-	350	-
Address Access Time	t_{AA}	-	250	-	300	-	350
Chip Select Access Time	t_{ACS}	-	250	-	300	-	350
Output Enable to Output Valid	t_{OE}	-	90	-	90	-	90
Output Hold from Address Change	t_{OH}	0	-	0	-	0	-
Output or Chip Deselection to Output High Z	t_{DF}	0	60	0	80	0	80

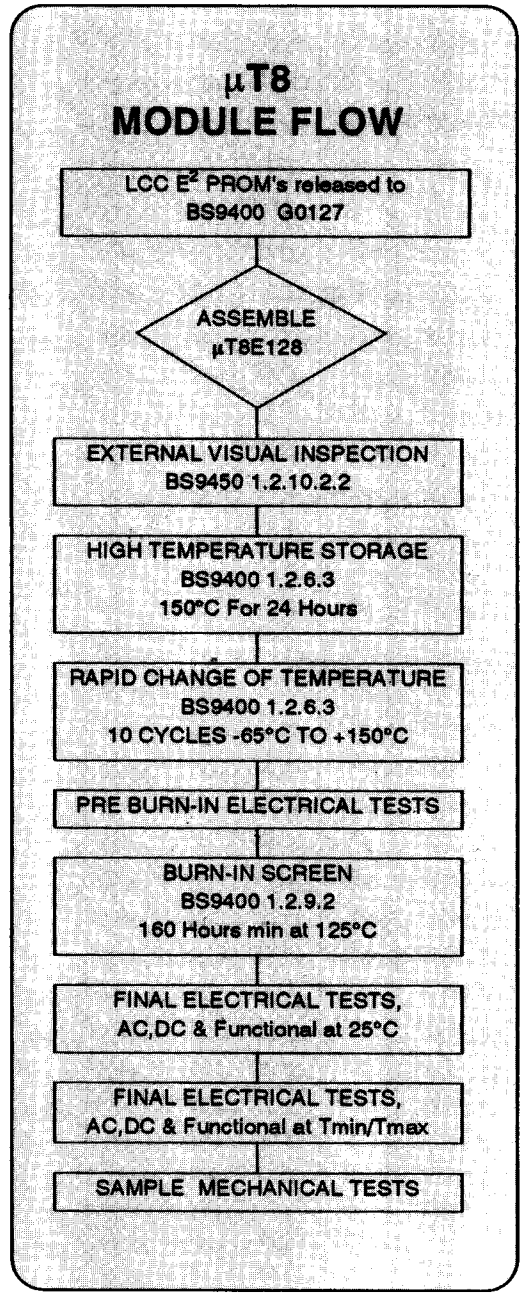
Pin Assignments



Pin Names

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

μT8 MODULE FLOW



Power Consumption (Operating average)

8 bit data - 66mA maximum	32 bit data - 240mA maximum
16 bit data - 125mA maximum	Standby mode - 8mA maximum

MICROTECH

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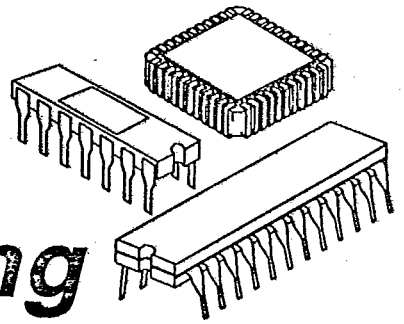

Custom Packaging

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.

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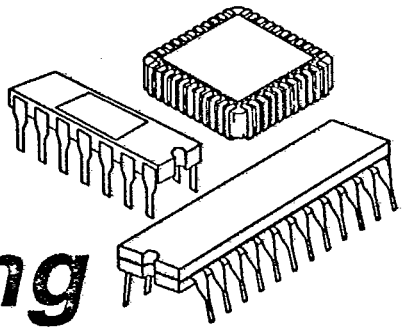

Custom Packaging

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.