

CMOS 2K x 8 ZEROPOWER SRAM

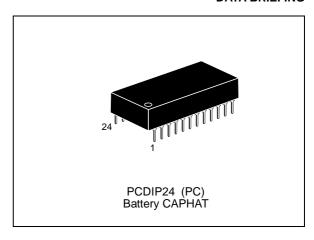
DATA BRIEFING

- INTEGRATED ULTRA LOW POWER SRAM, POWER-FAIL CONTROL CIRCUIT and BATTERY
- UNLIMITED WRITE CYCLES
- READ CYCLE TIME EQUALS WRITE CYCLE TIME
- AUTOMATIC POWER-FAIL CHIP DESELECT and WRITE PROTECTION
- CHOICE of TWO WRITE PROTECT VOLTAGES:
 - $M48Z02: 4.5V \le V_{PFD} \le 4.75V$
 - $M48Z12: 4.2V \le V_{PFD} \le 4.5V$
- SELF CONTAINED BATTERY in the CAPHAT DIP PACKAGE
- 10 YEARS of DATA RETENTION in the ABSENCE of POWER
- PIN and FUNCTION COMPATIBLE with JEDEC STANDARD 2K x 8 SRAMs

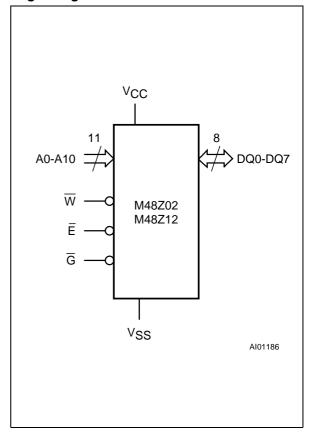
DESCRIPTION

The M48Z02,12 ZEROPOWER® RAM is a 2K x 8 non-volatile static RAM which is pin and function equivalent to any JEDEC standard 2K x 8 SRAM. It also easily fits into many ROM, EPROM, and EEPROM sockets, providing the non-volatility of PROMs without any requirement for special write timing or limitations on the number of writes that can be performed. The M48Z02,12 is compatible with the MK48Z02,12.

A special 24 pin 600mil DIP CAPHAT™ package houses the M48Z02,12 silicon with a long life lithium button cell to form a highly integrated battery backed-up memory solution.

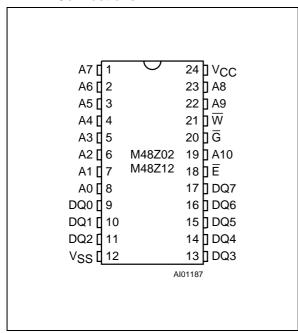


Logic Diagram



B48Z02/412 1/2

DIP Pin Connections



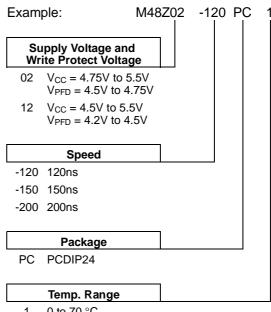
Signal Names

A0-A10	Address Inputs
DQ0-DQ7	Data Inputs / Outputs
Ē	Chip Enable
G	Output Enable
W	Write Enable
V _{CC}	Supply Voltage
V _{SS}	Ground

Ordering Information Scheme

For a list of available options refer to the current Memory Shortform catalogue.

For further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.



- 0 to 70 $^{\circ}$ C
- –40 to 85 °C