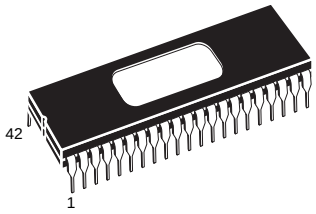
M27C322

32 Mbit (2Mb x16) UV EPROM

DATA BRIEFING

- 5V ± 10% SUPPLY VOLTAGE in READ OPERATION
- FAST ACCESS TIME: 80ns
- WORD-WIDE CONFIGURABLE
- 32 Mbit MASK ROM REPLACEMENT
- LOW POWER CONSUMPTION
  - Active Current 50mA at 5MHz
  - Stand-by Current 100µA
- PROGRAMMING VOLTAGE: 12V ± 0.25V
- PROGRAMMING TIME: 100µsec/word (typical)
- ELECTRONIC SIGNATURE
  - Manufacturer Code: 0020h
  - Device Code: 0034h



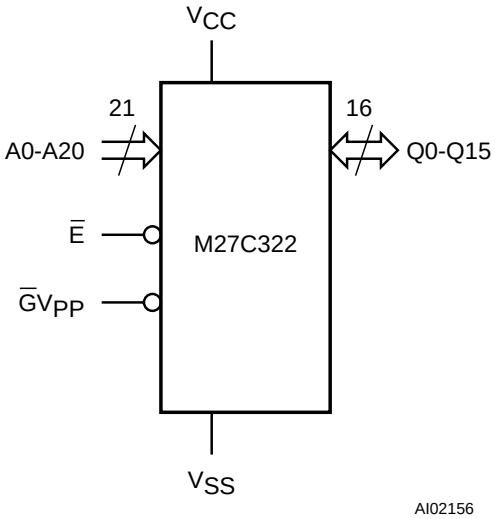
FDIP42W (F)

DESCRIPTION

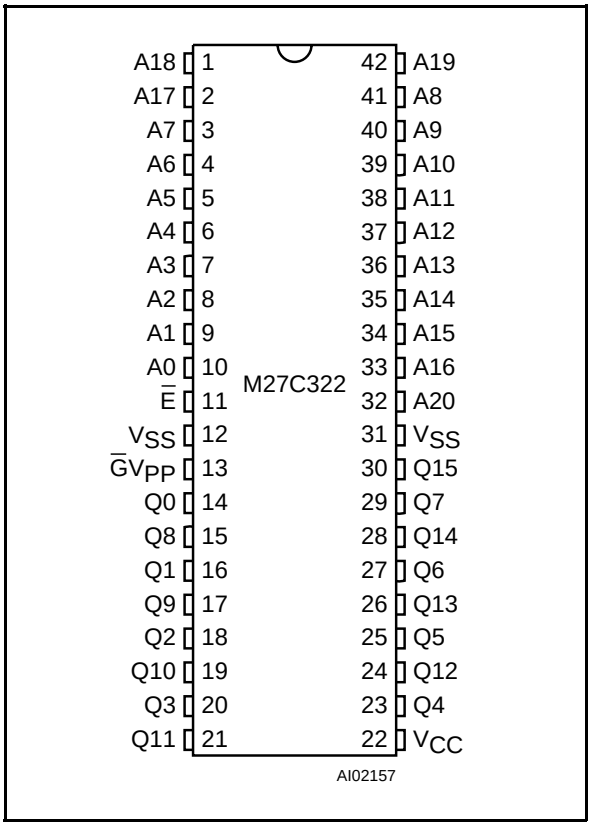
The M27C322 is a 32 Mbit EPROM offered in the UV range (ultra violet erase). It is ideally suited for microprocessor systems requiring large data or program storage. It is organised as 2 MWords of 16 bit. The pin-out is compatible with a 32 Mbit Mask ROM.

The FDIP42W (window ceramic frit-seal package) has a transparent lid which allows the user to expose the chip to ultraviolet light to erase the bit pattern. A new pattern can then be written rapidly to the device by following the programming procedure.

Logic Diagram



DIP Pin Connections



Ordering Information Scheme

For a list of available options or for further information on any aspect of this device, please contact the STMicroelectronics Sales Office nearest to you.

Example: M27C322 -80 F 1

Operating Voltage

C 4.5V to 5.5V

Speed

-80 80ns

-100 100ns

-120 120ns

Package

F FDIP42W

Temp. Range

1 0 to 70 °C

Signal Names

A0-A20	Address Inputs
Q0-Q15	Data Outputs
$\overline{E}$	Chip Enable
$\overline{G}V_{PP}$	Output Enable / Program Supply
V_{CC}	Supply Voltage
V_{SS}	Ground