

ROM \Rightarrow These type of memories contain a permanent set of information written into the memory.

\rightarrow In these memories, stored data is used only for reading information from it.

\Rightarrow Read only memories are non-volatile memories because in ROM's stored data is not lost even if power is switched off.

Types of ROM's \rightarrow Depending upon non-erasable and erasable memories they are classified into four basic types.



Masked ROM & PROM are non-erasable types of ROM.

EPROM & EEPROM are erasable type of ROM.

Mask-ROM \Rightarrow In these memories, data is stored permanent through photo-masking during fabrication. Programming is done through masking and metallization process.

PROM \Rightarrow Can be programmed to store data using a PROM programmer.

\rightarrow It can be programmed once only, and can not be changed or rewrite again.

EPROM \Rightarrow It is an erasable programmable read only memory that erases can be erased by UV light and programmed as required.

① EPROM uses UV light to erase the data.

② The erasing process in EPROM takes 15 to 20 minutes.

EEPROM \Rightarrow It is an electrically erasable programmable read only memory, that erases and programmed or reprogrammed as required.

① EEPROM uses electrical signal for erasing the data contents.

② The erasing process in EEPROM is done byte to byte. faster as compared to EPROM.