LM6402A, 6405A   n channel e/d mos LSI

4-BIT SINGLE-CHIP MICROCOMPUTER

3014A   3025B

Features

LM6402A/6405A are 4-bit microcomputers fabri-
cated on single chips using N channel MOS tech-
nology. They are designed for use in controller ap-
plications and contains ROM (2048 bytes (2K
bytes) max.), RAM (128x4 bits max.), ALU, I/O
ports, timer, clock generator, PLA, etc. in a single
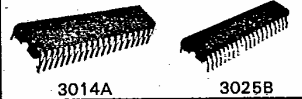chip. 35 pins are available for I/O ports.

Features in hardware (Reduction in external parts)

- Single 5V supply, N channel E/D MOS
- C MOS, TTL compatible
- LED driver-contained output ports (2 ports/
  8 pins)
- 24-character PLA
- Input/output common ports (7 ports/27
  pins)
- Flexible output circuit (Open drain/pull-up
  resistor attached)
- Clock generator (Ceramic resonator external-
  ly attached)
- Cycle time 10μs
- LM6402A and LM6405A are identical in all
  functions except ROM, RAM capacity.
- Input threshold voltage selectable (Normal/
  high threshold)
- Initial reset and external interrupt input pins
  containing Schmitt gate

**Features in software (Effective use of ROM
capacity)**

- 4-level subroutine nesting
- Interrupt function (External/internal)
- Programmable timer with wide setting range
  (Timer, pulse count, pulse width measure)
- Powerful instruction set of 82 instructions
- Automatic page select
- LM6402A/LM6405A instructions com-
  patible

LM6402H, 6405H   n channel e/d mos LSI

4-BIT SINGLE CHIP MICROCOMPUTER

3014A   3025B

Features

LM6402H/6405H are 4-bit microcomputers fab-
ricated on single chips using N channel MOS tech-
nology. They are designed for use in controller ap-
plications and contains ROM (2048 bytes (2K
bytes) max.), RAM (128x4 bits max.), ALU, I/O
ports, timer, clock generator, PLA, etc. in a single
chip. 35 pins are available for I/O ports. A rather
fast cycle time of 5μs enables high-grade control.

Features in hardware (Reduction in external parts)

- Single 5V supply, N channel E/D MOS
- C MOS, TTL compatible
- LED driver-contained output ports (2 ports/
  8 pins)
- 24-character PLA
- Input/output common ports (7 ports/27
  pins)
- Flexible output circuit (Open drain/pull-up
  resistor attached)
- Clock generator (Ceramic resonator external-
  ly attached)
- Cycle time 5μs
- LM6402H and LM6405H are identical in all
  functions except ROM, RAM capacity.
- Input threshold voltage selectable (Normal/
  high threshold)
- Initial reset and external interrupt input pins
  containing Schmitt gate

**Features in software (Effective use of ROM
capacity)**

- 4-level subroutine nesting
- Interrupt function (External/internal)
- Programmable timer with wide setting range
  (Timer, pulse count, pulse width measure)
- Powerful instruction set of 82 instructions
- Automatic page select
- LM6402H/LM6405H instructions compati-
  ble

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