

# **MN1873265**

|                                           |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |
|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Type</b>                               |                            | <b>MN1873265</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |
| <b>ROM (x8-bit)</b>                       |                            | 32K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |
| <b>RAM (x8-bit)</b>                       |                            | 480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |
| <b>Minimum Instruction Execution Time</b> |                            | 2/3 dividing 0.5µs (at 4.5 to 5.5V, 12MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |
| <b>Interrupts</b>                         |                            | • RESET • External 0 • External 1 • Timer 0 • Timer 1 • Timer 2 • Remote Control • Line 21<br>• COSD                                                                                                                                                                                                                                                                                                                                                                                  |                                              |
| <b>Timer Counter</b>                      |                            | <b>Timer Counter 0 : 8-bit x 1</b><br>Clock Source .....1/1, 1/4, 1/16, 1/64 of System Clock<br>Interrupt Source .....Overflow of Timer Counter 0<br><br><b>Timer Counter 1 : 8-bit x 1</b><br>Clock Source .....1/2, 1/16, 1/64, 1/256, 1/512 of System Clock<br>Interrupt Source .....Overflow of Timer Counter 1<br><br><b>Time Base Counter</b><br>Clock Source .....1/4096 of System Clock<br>Interrupt Source .....1/1, 1/2, 1/4, 1/8 of Timer Counter 2<br><br><b>Watchdog</b> |                                              |
| <b>I/O Pins</b>                           | <b>I/O</b>                 | <b>21</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | • Common use : 3                             |
|                                           | <b>Input</b>               | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • Common use : 1                             |
|                                           | <b>High Voltage Output</b> | <b>7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | • Nch Open-drain (Breakdown Voltage 12V) : 7 |
| <b>A/D Inputs</b>                         |                            | 5-bit x 7ch (without S/H)                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |
| <b>PWM</b>                                |                            | 14-bit x 1ch (Repetition Cycle 16µs, at 12MHz), 8-bit x 8ch (Repetition Cycle 32µs, at 12MHz), 7-bit x 1ch (Repetition Cycle 16µs, at 12MHz)                                                                                                                                                                                                                                                                                                                                          |                                              |
| <b>Special Ports</b>                      |                            | Remote Control Reception                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |
| <b>CRTC</b>                               |                            | Single OSD built-in (Caption OSD : 12 x 26, 176 letters)                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |
| <b>Notes</b>                              |                            | Remote Control Data Detection Circuit built-in                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |
| <b>Package</b>                            |                            | SDIP064-P-0750                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                              |

## **Electrical Characteristics**

### **A/D Converter Characteristics**

| Parameter                   | Symbol | Condition  | Limit |     |     | Unit |
|-----------------------------|--------|------------|-------|-----|-----|------|
|                             |        |            | min   | typ | max |      |
| <b>A/D Conversion Time</b>  | TAD    | fosc=12MHz | 9     |     |     | µs   |
| <b>Analog Input Voltage</b> | VAD    |            | VSS   |     | VDD | V    |

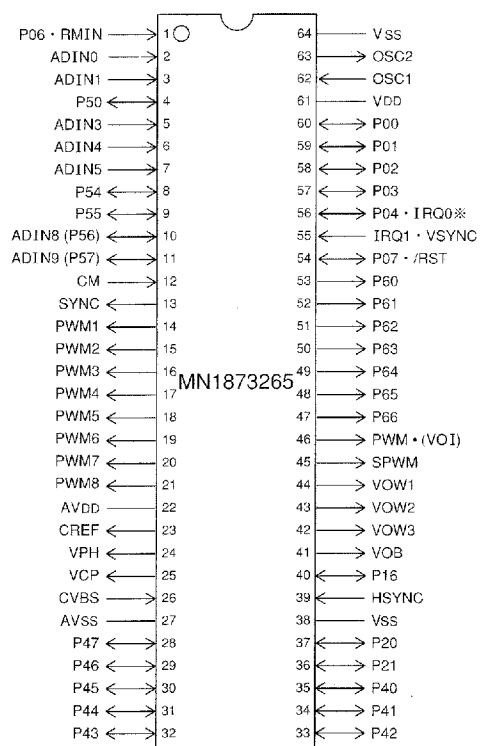
(Ta= -20 to +70°C, VDD=5.0V, VSS=0V)

## Support Tool

**In-Circuit Emulator** PX-ICE1870 / 80 + PX-PRB1876476

**EPROM built-in Type** Use **MN18P76476** in SDIP064-P-0750 package.

## Pin Assignment



SDIP064-P-0750