

# □ MN101C273

Type	MN101C273						
ROM (x8-bit)	4 K						
RAM (x8-bit)	0.5 K						
Package (Conventional Package)	SDIP028-P-0400D *Lead-free (SDIP028-P-0400)						
Minimum Instruction Execution Time	0.238 μs (at 2.7 V to 5.5 V, 8.39 MHz) 1.00 μs (at 2.0 V to 5.5 V, 2 MHz)* * The lower limit for operation guarantee for EPROM built-in type is 2.7 V.						
Interrupts	• RESET • Watchdog • External 0 • External 1 • Timer 2 • Timer 3 • Serial 0 • A/D conversion finish						
Timer Counter	<p>Timer counter 2 : 8-bit × 1 (square-wave/8-bit PWM output, event count, synchronous output event) Clock source ..... 1/1, 1/4 of system clock frequency; external clock input Interrupt source ..... coincidence with compare register 2</p> <p>Timer counter 3 : 8-bit × 1 (square-wave output, event count, generation of remote control carrier, serial 0 baud rate timer) Clock source ..... 1/4, 1/16 of system clock frequency; 1/1 of OSC oscillation clock frequency; external clock input Interrupt source ..... coincidence with compare register 3</p> <p>Timer counter 2, 3 can be cascade-connected.</p> <p>Watchdog timer Interrupt source ..... 1/1048576 of system clock frequency</p>						
Serial Interface	Serial 0 : synchronous type/simple UART (half-duplex) × 1 Clock source ..... 1/2, 1/4, 1/16 of system clock frequency; output of timer counter 3						
I/O Pins	<table border="1"> <tr> <td>I/O</td> <td>16</td> <td>• Common use • Specified pull-up resistor available • Input/output selectable (bit unit)</td> </tr> <tr> <td>Input</td> <td>6</td> <td>• Common use • Specified pull-up resistor available</td> </tr> </table>	I/O	16	• Common use • Specified pull-up resistor available • Input/output selectable (bit unit)	Input	6	• Common use • Specified pull-up resistor available
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Input	6	• Common use • Specified pull-up resistor available					
A/D Inputs	10-bit × 4-ch. (with S/H)						
Special Ports	Remote control carrier signal output, high-current drive port						

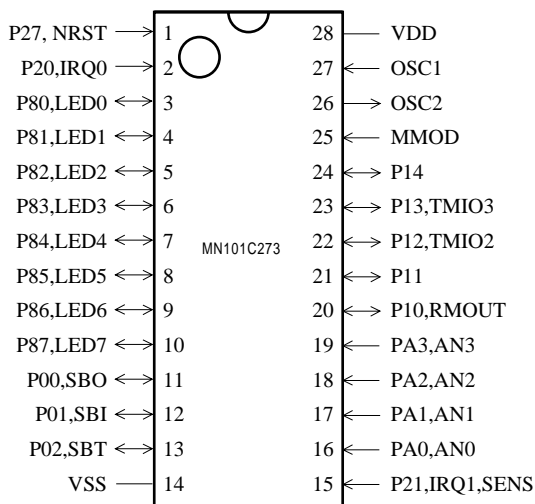
## Electrical Characteristics

### Supply current

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
Operating supply current	IDD1	fosc = 8.39 MHz, VDD = 5 V		10	25	mA
Supply current at HALT	IDD2	fosc = 8.39 MHz, VDD = 5 V		1.2	3	mA
Supply current at STOP	IDD3	VDD = 5 V, Ta = 25°C			2	μA
		VDD = 5 V, Ta = -40°C to +85°C			20	μA

**Pin Assignment**

( ) : Conventional Package



SDIP028-P-0400D \*Lead-free  
(SDIP028-P-0400)

**Support Tool**

<b>In-circuit Emulator</b>	PX-ICE101C/D+PX-PRB101C27-SDIP028-P-0400	
<b>EPROM Built-in Type</b>	Type	MN101CP273
	ROM (× 8-bit)	4 K
	RAM (× 8-bit)	0.5 K
	Minimum instruction execution time	0.238 μs (at 2.7 V to 5.5 V, 8.39 MHz)
	Package	SDIP028-P-0400D *Lead-free
	(Conventional Package)	(SDIP028-P-0400)

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