

MN152810

Type		MN152810	
ROM (×8-Bit)		8 K	
RAM (×4-Bit)		320	
Number of Instructions		115	
Minimum Instruction Execution Time		2.0 μs at 1/12 frequency dividing (at 4.5 V to 5.5 V, 6 MHz)	
Interrupts		• RESET • SIRQ • Remote Control Input • Timer • Serial (Only when choosing Mask Option)	
Timer Counter		Timer Counter : 8-Bit × 1 Clock Source 1/2, 1/8, 1/32, 1/128 of System Clock Interrupt Source Overflow of Timer Counter	
Serial Interface		Serial : 8-Bit × 1 (Synchronous Type) Clock Source System Clock, SBT Pin Input	
I/O Pins	I/O	6	• Common use : 2 • Specified pull-up Resistor available (Mask Option) • Nch Open-Drain available (Output) 4
	Input	4	• Common use 1 • Specified pull-up Resistor available 4 (Mask Option) • Output selectable 3 (Software Programmable)
	High Voltage Output	5	• Nch Open-Drain (Breakdown Voltage 12 V) 5 • Push-Pull Output selectable 4 (Mask Option)
	Output	5	
A/D Inputs		5-Bit × 4ch (Conversion by Software)	
D/A Inputs		6-Bit × 5ch	
PWM		7-Bit × 4ch (Repetition Cycle 256 μs, at 6 MHz), 14-Bit × 1ch (Repetition Cycle 32.8 ms, at 6 MHz)	
Special Ports		Tri-State Output (PTO), Remote Control Reception	
CRTC		5 × 7 dots, 16 characters, 6 lines, 7 colors, 120 patterns, Rounding function, Framing function	
Notes		Remote Control Data Detection Circuit built-in, For Voltage Synthesizer, Stand-By	
Package		SDIP052-P-0600	

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Electrical Characteristics

Supply Current

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
Operating Supply Current	IDD1	fosc = 6 MHz, VDD = VDDC = AVDD = 5 V VSSC = 2 V, Ta = 25 °C		28	50	mA
	IDD2	fosc = 6 MHz, VDD = VDDC = AVDD = 5 V VSSC = 2 V, Ta = 25 °C		4.0	8.0	mA
Supply Current at STOP	IDD3	VDD = VDDC = AVDD = 3 V, VSSC = 0 V fosc = 0 Hz, Ta = 25 °C			2.0	μA

(Ta = 25 °C, 80 °C, VDD = 5.0 V, VSS = 0 V)

A/D, D/A Converter Characteristics

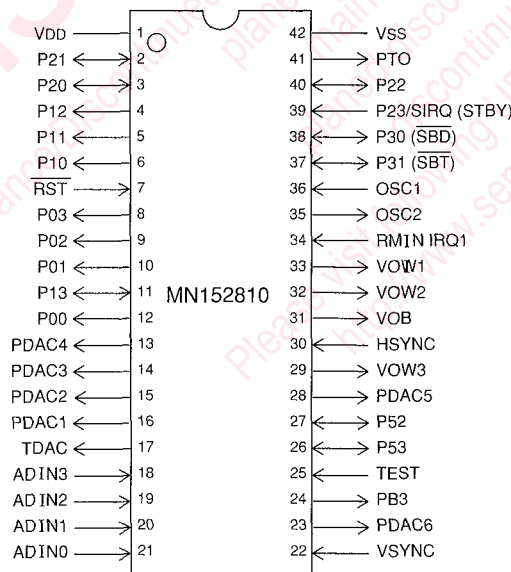
Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
A/D Conversion Absolute Error		VDD = 5 V, VSS = 0 V			±1	LSB
D/A Conversion Absolute Error		VDD = 5 V, VSS = 0 V			±1/2	LSB
Analog Input Voltage			VSS		VDD	V

(Ta = 25 °C, 80 °C, VDD = 5.0 V, VSS = 0 V, VSSC = 0 V, VDDC = AVDD = 5 V)

Support Tool

In-Circuit Emulator	PX-ICE1500 + PX-PRB152810
Piggyback	Use EP152810 as piggy in SDIP052-P-0600 package

Pin Assignment



SDIP052-P-0600

NC Nothing connected with pin

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