☐ MN102L35G

Туре		MN102L35G			
ROM (×16-bit)		144 K			
RAM (×16-bit)		5 K			
Package		SDIP064-P-0750C *Lead-free			
(Conventional Package)		(SDIP064-P-0750)			
Minimum Instruction Execution Time		167 ns (at 4.75 V to 5.25 V, 12 MHz)			
Interrupts		External (4 lines)			
		Internal (23 lines): Timer \times 8, A/D \times 1, Undefined command \times 1, RESET \times 1, OSD \times 2, Serial \times 2,			
		$I^2C \times 1$, Caption $\times 2$, Remote control $\times 1$, Address coincidence $\times 4$			
Timer Counter		8-bit timer \times 2			
		16-bit timer × 2			
		Watchdog timer: 17 -bit $\times 1$			
Serial Interface		I ² C × 1: for multimaster mode, bus line (output) has 2 systems			
		Sync serial / I ² C (master) / UART × 1			
Caption		• Built-in sync separator × 2			
I/O Pins	I/O	49 • Common use			
	Input	1 • Common use			
A/D Inputs		8-bit × 8-ch. (with S/H)			
D/A Outputs		4-bit × 4-ch. (analog R, G, B, YM output)			
PWM		8-bit × 6-ch.			
Special Ports		Remote control reception			
CRTC		3-layer display (graphics, characters, splits)			
Notes		Remote control input discriminant circuit built-in			

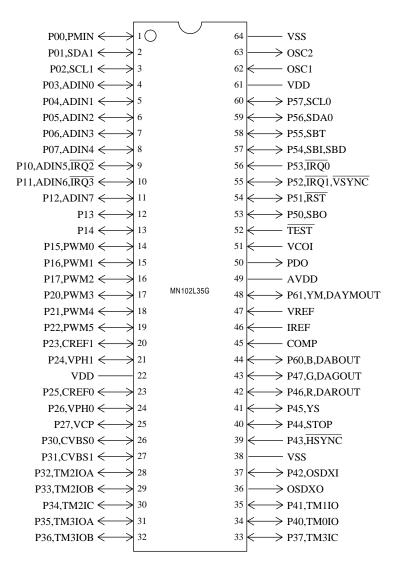
Electrical Characteristics

D/A characteristics

Parameter	Symbol	Condition		Limit		
raiailletei				typ	max	Unit
D/A full-scale output current	IFS	RL = 200 Ω , VREF = 1.2 V, RIREF = 1.2 k Ω	4.5	5.0	5.5	mA
D/A output voltage setting range	VO	RL = 200 Ω, VREF = 1.2 V, RIREF = 1.2 kΩ			1.1	V
D/A non-linear error	NLE	RL = 200 Ω , VREF = 1.2 V, RIREF = 1.2 k Ω			± 0.5	LSB
D/A differential non-linear error	DNLE	RL = 200 Ω , VREF = 1.2 V, RIREF = 1.2 k Ω			± 0.5	LSB
D/A channel interval error	IFS	$VREF = 1.2 V$, $RIREF = 1.2 k\Omega$, $Error from 4-channel average IFS$			± 5	%

 $(Ta = 25 ^{\circ} C$, $VDD = AVDD = 5.0 \ V$, $VSS = 0 \ V$, fosc = 4 MHz)

Pin Assignment (): Conventional Package



SDIP064-P-0750C *Lead-free (SDIP064-P-0750)

Support Tool

In-circuit Emulator	PX-ICE102L00 + PX-PRB102L35-SDIP064-P-0750		
EPROM Built-in Type	Туре	MN102LP35Z	
	ROM (× 16-bit)	144 K	
	RAM (× 16-bit)	5 K	
	Minimum instruction execution time	167 ns (at 4.75 V to 5.25 V, 12 MHz)	
	Package	SDIP064-P-0750C *Lead-free	
	(Conventional Package)	(SDIP064-P-0750)	

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