■ MN102L62G

Туре	MN102L62G						
ROM (x8-bit / x16-bit)	128 K						
RAM (×8-bit / ×16-bit)	5 K LQFP100-P-1414 *Lead-free						
Package							
Minimum Instruction Execution Time	100 ns (at 4.5 V to 5.5 V, 20 MHz)						
Interrupts	 RESET • Watchdog • Timer counter 0 to 5 • Timer counter 6 to 7 • Timer counter 6 to 7 compare capture A • Timer counter 6 to 7 compare capture B • ATC transfer finish • External 0 to 4 • Serial ch.0, 1 transmission • Serial ch.0, 1 reception • NMI pin • A/D conversion finish 						
Timer Counter	Timer counter 0: 8-bit × 1 (timer output, event count) Clock source						
	Clock sourcesystem clock; 1/4 of low speed clock frequency; external clock; timer counter 0 output Interrupt source						
	Timer counter 2 to 3: 8-bit × 1 (timer output, event count, UART baud rate generator) Clock source						
	Connectable timer counter 0 to 5						
Serial Interface	Serial 0:7, 8-bit × 1 (common use with UART, transfer direction of MSB/LSB selectable) Clock source						
	Serial 1: 7, 8-bit × 1 (common use with UART, transfer direction of MSB/LSB selectable) Clock source						
	UART \times 2 (common use with serial 0, 1)						
	$I^2C \times 2$ (single master)						
I/O Pins I/O	80 • Common use: 16 (by 8 bits), 8 (by 4 bits), 56 (by bit)						
A/D Inputs	8-bit \times 8-ch. (with S/H)						
PWM	16-bit × 2-ch.						
Notes	Burst ROM inferface support, ATC (between serial 0ch and internal RAM) support						

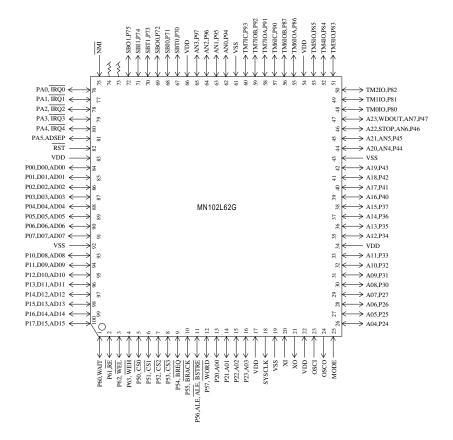
Electric Characteriatics

Supply current

Parameter	Symbol	Condition	Limit			Unit
Parameter		Condition		typ	max	Onit
Operating supply current	IDDopr	VI = VDD or VSS, output open			75	mA
		f = 20 MHz , VDD = 5.0 V			13	
Supply current at STOP	IDDS	Pin with pull-up resistor is open		50		μА
		all other input pins and Hi-Z state input/output				
Supply current at HALT	IDDH	pins are simultaneously applied VDD or VSS level		20		4
		f = 20 MHz, VDD = 5.0 V, output open			30	mA

 $(Ta = -40^{\circ}C \text{ to } +85^{\circ}C, VDD = 5.0 \text{ V}, VSS = 0 \text{ V})$

Pin Assignment



LQFP100-P-1414 *Lead-free

Support Tool

In-circuit Emulator	PX-ICE102L00 + PX-PRB102L25-LQFP100-P-1414		
EPROM Built-in Type	Туре	MN102LP25G	
	ROM (× 8-bit / × 16-bit)	128 K	
	RAM (× 8-bit / × 16-bit)	5 K	
	Minimum instruction execution time	100 ns (4.5 V to 5.5 V , 20 MHz)	
	Package	LQFP100-P-1414 *Lead-free	
Flash Memory Built-in Type	Туре	MN102LF25Z	
	ROM (× 8-bit / × 16-bit)	128 K	
	RAM (× 8-bit / × 16-bit)	3 K	
	Minimum instruction execution time	100 ns (4.5 V to 5.5 V , 20 MHz)	
	Package	LQFP100-P-1414 *Lead-free	

MN102L62G □

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