

P20-P27 (Port 2)

P20-P27 is an 8-bit quasi-bidirectional port. P20-P23 output the high order four bits of the address during an external program memory fetch. P20-P23 also function as a 4-bit I/O bus for the μ PD82C43 I/O port expander.

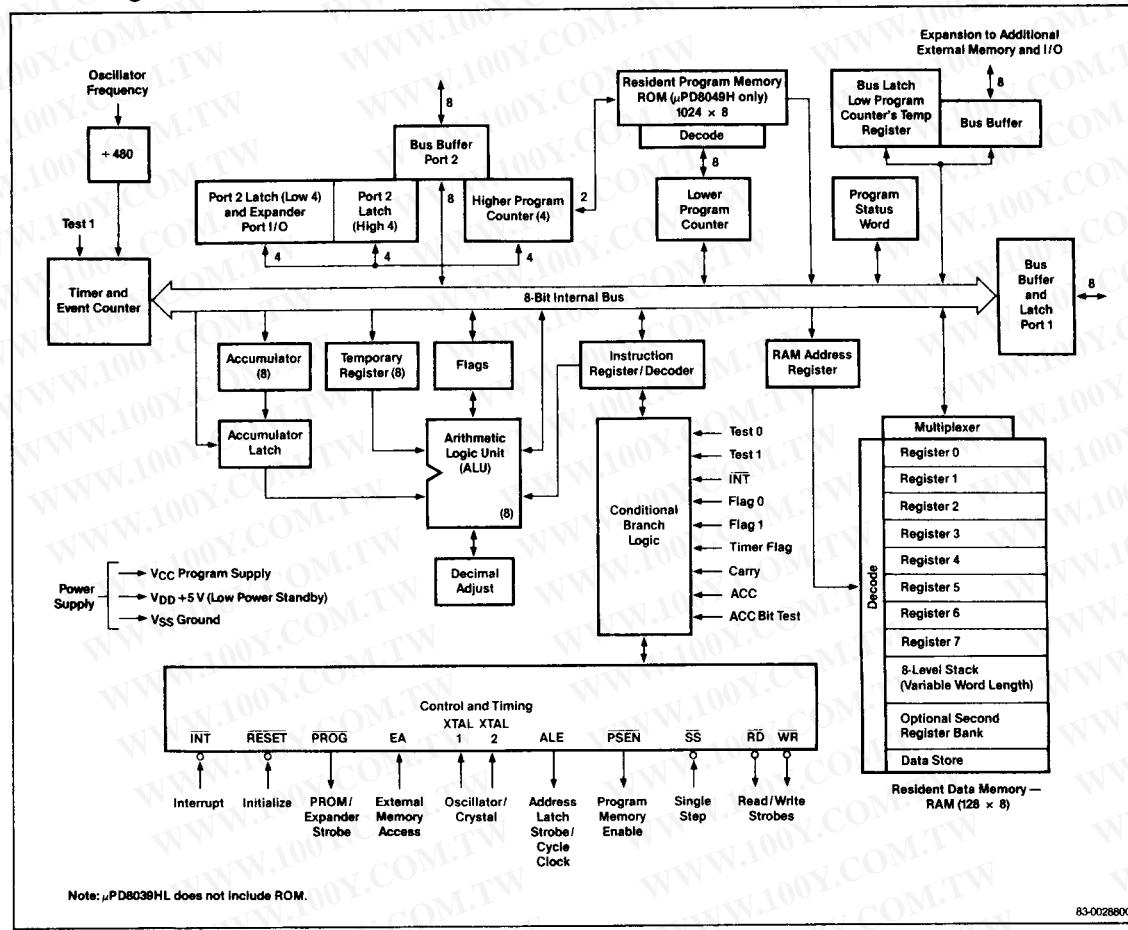
PROG (Program Pulse)

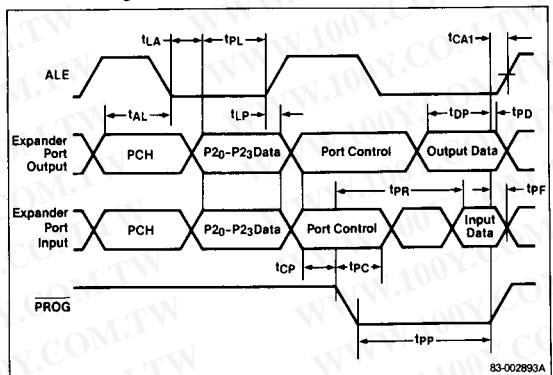
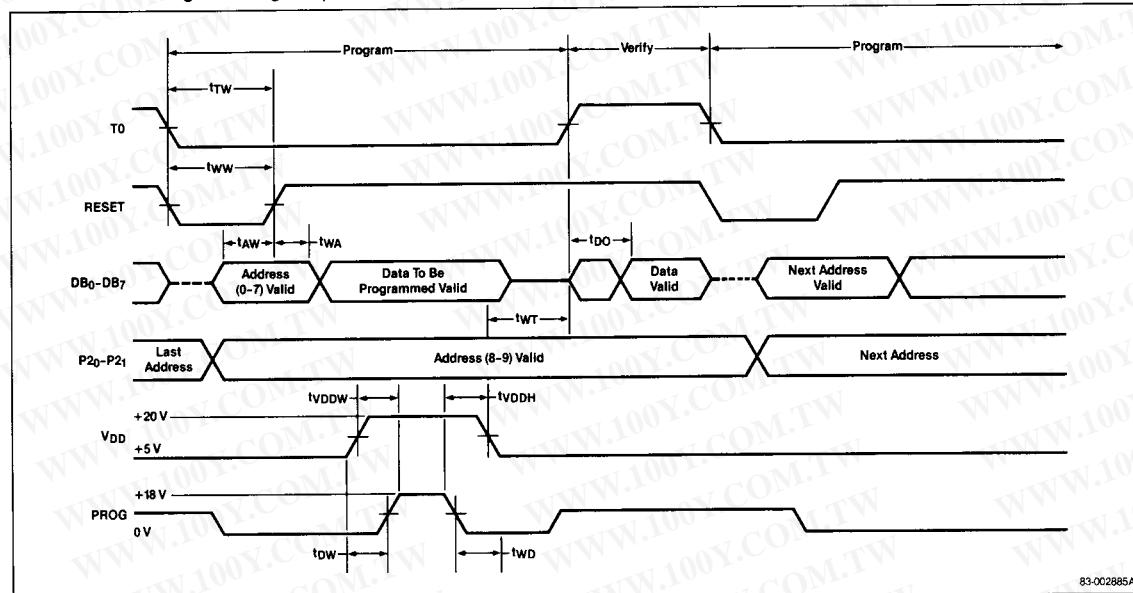
PROG is used as an output pulse during a fetch when interfacing with the μ PD82C43 I/O port expander. When the μ PD8049H is used in a stand-alone mode, PROG can be allowed to float.

VCC (Primary Power Supply)

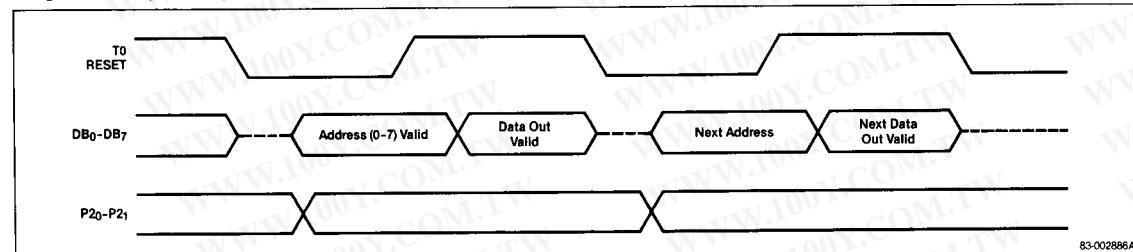
VCC is the primary power supply. VCC is +5V during normal operation.

Block Diagram



Timing Waveforms (cont)**Port 2 Timing****Waveforms for Programming the μ PD8749H**

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Program/Verify Timing (ROM/EPROM)

Instruction Set Symbol Definitions

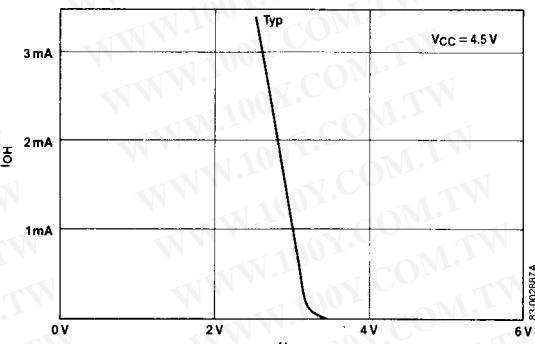
Symbol	Description
A	Accumulator
AC	Auxiliary carry flag
addr	Program memory address (12 bits)
B _b	Bit designator (b = 0–7)
BS	Bank switch
BUS	Bus port
C	Carry flag
CLK	Clock signal
CNT	Event counter
D	Nibble designator (4 bits)
data	Number of expression (8 bits)
DBF	Memory bank flip-flop
F0, F1	Flags 0, 1
I	Interrupt
P	"In-page" operation designator
P _p	Port designator (p = 1, 2 or 4–7)
PSW	Program status word
R _r	Register designator (r = 0, 1 or 0–7)
SP	Stack pointer
T	Timer
TF	Timer flag
T0, T1	Testable flags 0, 1
X	External RAM
#	Prefix for immediate data
@	Prefix for indirect address
\$	Program counter's current value
(x)	Contents of external RAM location
((x))	Contents of memory location addressed by the contents of external RAM location
←	Replaced by
AND	Logical product (logical AND)
OR	Logical sum (logical OR)
EXOR	Exclusive-OR

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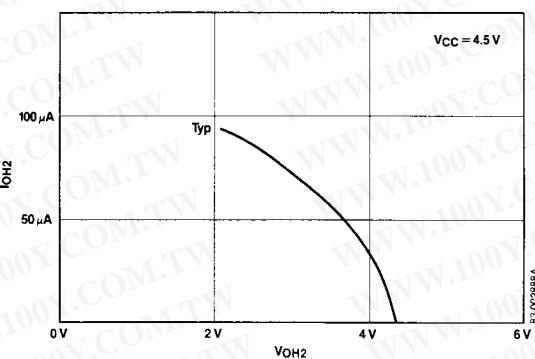
Operating Characteristics

Bus Output High Voltage vs. Source Current



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Port P1 & P2 Output High Voltage vs. Source Current



Bus Output Low Voltage vs. Sink Current

