

MIC5800/1

4/8-Bit Parallel-Input Latched Drivers

Features

- 4.4 MHz Minimum Data Input Rate
- High-Voltage, High-Current Sink Outputs
- Output Transient Protection
- CMOS, PMOS, NMOS, and TTL Compatible
 Inputs
- Internal Pull-Down Resistors
- Low-Power CMOS Latches

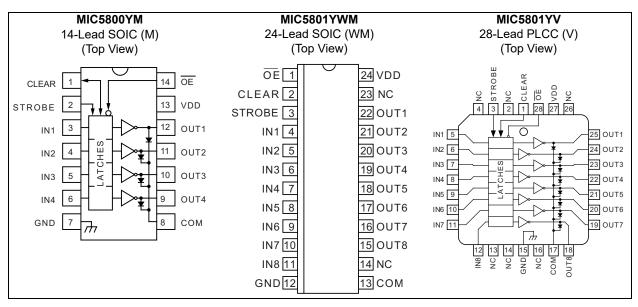
General Description

The MIC5800 and MIC5801 latched drivers are high-voltage, high-current integrated circuits comprised of four or eight CMOS data latches, a bipolar Darlington transistor driver for each latch, and CMOS control circuitry for the common CLEAR, STROBE, and OUTPUT ENABLE functions.

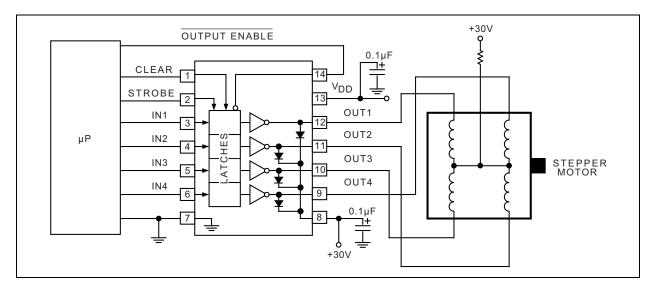
The bipolar/MOS combination provides an extremely low-power latch with maximum interface flexibility. MIC5800 contains four latched drivers; MIC5801 contains eight latched drivers.

Data input rates are greatly improved in these devices. With a 5V supply, they will typically operate at better than 5 MHz. With a 12V supply, significantly higher speeds are obtained. The CMOS inputs are compatible with standard CMOS, PMOS, and NMOS circuits. TTL or DTL circuits may require the use of appropriate pull-up resistors. The bipolar outputs are suitable for use with relays, solenoids, stepping motors, LED or incandescent displays, and other high-power loads. Both units have open-collector outputs and integral diodes for inductive load transient suppression. The output transistors are capable of sinking 500 mA and will sustain at least 50V in the OFF state. Because of limitations on package power dissipation, the simultaneous operation of all drivers at maximum rated current can only be accomplished by a reduction in duty cycle. Outputs may be connected in parallel for higher load current capability.

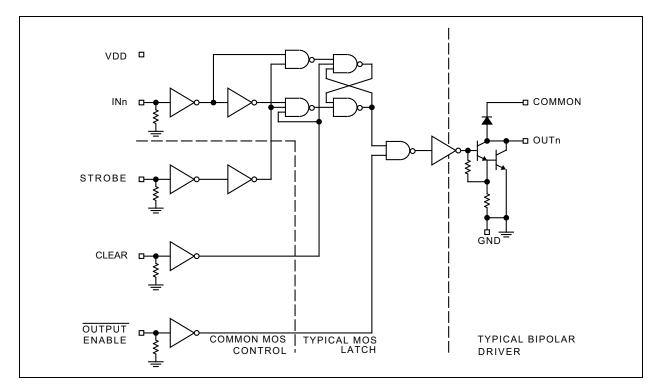
Package Types



Typical Application Circuit



Functional Block Diagram



1.0 ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings †

Output Voltage (V _{CE})	+50V
Supply Voltage (V _{DD})	
Input Voltage Range (V _{IN})	–0.3V to V _{DD} + 0.3V
Continuous Collector Current (I _C)	
ESD Rating (Note 1)	ESD Sensitive

Operating Ratings ††

Package Power Dissipation (P _D)	
MIC5800 SOIC	1.0W
Derate above T _A = +25°C	8.5 mW/°C
MIC5801 PLCC	
Derate above T _A = +25°C	
MIC5801 Wide SOIC	
Derate above T _A = +25°C	

† Notice: Exceeding the absolute maximum ratings may damage the device.

†† Notice: The device is not guaranteed to function outside its operating ratings.

Note 1: Microchip CMOS devices have input-static protection, but are susceptible to damage when exposed to extremely high static electrical charges.

Electrical Characteristics: V_{DD} = 5V, T_A = +25°C, $V_A \le$ +85°C unless otherwise noted. Note 1								
Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions		
				50		V _{CE} = 50V, T _A = +25°C		
Output Leakage Current	I _{CEX}			100	μA	V _{CE} = 50V, T _A = +70°C		
			0.9	1.1		I _C = 100 mA		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}		1.1	1.3	V	I _C = 200 mA		
Catalation Voltage			1.3	1.6		I _C = 350 mA, V _{DD} = 7.0V		
Input Voltage (Low)	V _{IN(0)}			1.0	V	—		
	V _{IN(1)}	10.5			V	V _{DD} = 12V		
Input Voltage (High)		8.5		_		V _{DD} = 10V		
		3.5				V _{DD} = 5V, Note 2		
		50	200			V _{DD} = 12V		
Input Resistance	R _{IN}	50	300	_	kΩ	V _{DD} = 10V		
		50	600	_		V _{DD} = 5V		
		_	1.0	2.0		V _{DD} = 12V, Outputs Open		
Supply Current ON (Each Stage)	I _{DD(ON)}		0.9	1.7	mA	V _{DD} = 10V, Outputs Open		
			0.7	1.0		V _{DD} = 5V, Outputs Open		
Supply Current OFF				200		V _{DD} = 12V, Outputs Open, Inputs = 0V		
(Total)	I _{DD(OFF)}	_	50	100	μA	V_{DD} = 5V, Outputs Open, Inputs = 0V		

ELECTRICAL CHARACTERISTICS

Note 1: Specification for packaged product only.

2: Operation of these devices with standard TTL or DTL may require the use of appropriate pull-up resistors to ensure a minimum logic "1".

ELECTRICAL CHARACTERISTICS (CONTINUED)

Electrical Characteristics: V_{DD} = 5V, T_A = +25°C, $V_A \le$ +85°C unless otherwise noted. Note 1								
Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions		
Clamp Diode Leakage	I _R	_		50		V _R = 50V, T _A = +25°C		
Current			_	100	μA	V _R = 50V, T _A = +70°C		
Clamp Diode Forward Voltage	V _F	_	1.7	2.0	V	I _F = 350 mA		

Note 1: Specification for packaged product only.

2: Operation of these devices with standard TTL or DTL may require the use of appropriate pull-up resistors to ensure a minimum logic "1".

TRUTH TABLE

INI	IN _N Strobe Clear /0	10E	OUT _N			
IN _N	Strobe	Clear	/OE	t – 1	t	
0	1	0	0	Х	OFF	
1	1	0	0	Х	ON	
Х	Х	1	Х	Х	OFF	
Х	Х	Х	1	Х	OFF	
Х	0	0	0	ON	ON	
Х	0	0	0	OFF	OFF	

Legend: X = Irrelevant; t - 1 = Previous output state; t = Present output state.

Information present at an input is transferred to its latch when the STROBE is high. A high CLEAR input will set all latches to the output OFF condition regardless of the data or STROBE input levels. A high /OE will set all outputs to the off condition, regardless of any other input conditions. When the /OE is low, the outputs depend on the state of their respective latches.

TEMPERATURE SPECIFICATIONS

Parameters	Sym.	Min.	Тур.	Max.	Units	Conditions
Temperature Ranges						
Storage Temperature Range	Τ _S	-65	—	+125	°C	—
Operating Temperature Range	T _A	-40	—	+85	°C	—

Note 1: The maximum allowable power dissipation is a function of ambient temperature, the maximum allowable junction temperature and the thermal resistance from junction to air (i.e., T_A, T_J, θ_{JA}). Exceeding the maximum allowable power dissipation will cause the device operating junction temperature to exceed the maximum +125°C rating. Sustained junction temperatures above +125°C can impact the device reliability.

2.0 PIN DESCRIPTIONS

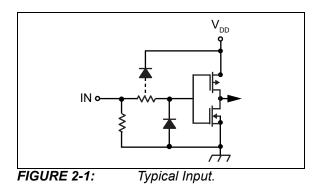
The descriptions of the pins are listed in Table 2-1 and Table 2-2.

Pin Number	Pin Name	Description					
1	CLEAR	Resets all latches and turns all outputs OFF (open).					
2	STROBE	nput strobe pin. Loads output latches when high.					
3, 4, 5, 6	IN _N	Parallel inputs, 1 through 4.					
7	GND	Logic and Output Ground pin.					
8	COM	Transient suppression diode common cathode pin.					
9, 10, 11, 12	OUT _N	Parallel outputs, 4 through 1.					
13	VDD	Logic Supply Voltage.					
14	/OE	Output Enable. When low, outputs are active. When high, outputs are inactive and device is reset from a fault condition. An undervoltage condition emulates a high OE input.					

TABLE 2-1: MIC5800 PIN FUNCTION TABLE

TABLE 2-2: MIC5801 PIN FUNCTION TABLE

Pin Number SOIC	Pin Number PLCC	Pin Name	Description	
1	28	/OE	Output Enable. When low, outputs are active. When high, outputs are inactive and device is reset from a fault condition. An undervoltage condition emulates a high OE input.	
2	1	CLEAR	Resets all latches and turns all outputs OFF (open).	
3	3	STROBE	Input strobe pin. Loads output latches when high.	
4, 5, 6, 7, 8, 9, 10, 11	5, 6, 7, 8, 9, 10, 11, 12	IN _N	Parallel inputs, 1 through 8.	
12	15	GND	Logic and Output Ground pin.	
13	17	COM	Transient suppression diode common cathode pin.	
14, 23	2, 4, 13, 14, 16, 26	NC	No Connection. Leave floating.	
15, 16, 17, 18, 19, 20, 21, 22	18, 19, 20, 21, 22, 23, 24, 25	OUT _N	Parallel outputs, 8 through 1.	
24	27	VDD	Logic Supply Voltage.	



MIC5800/1

3.0 TIMING

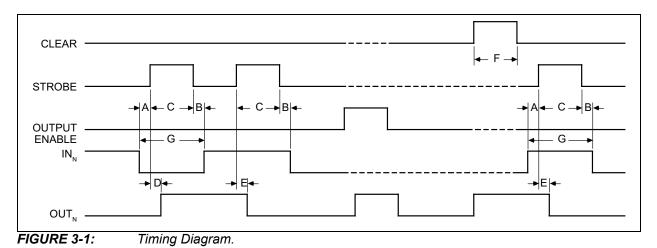
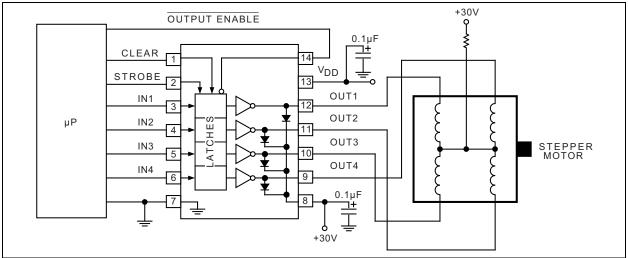


TABLE 3-1: TIMING CONDITIONS

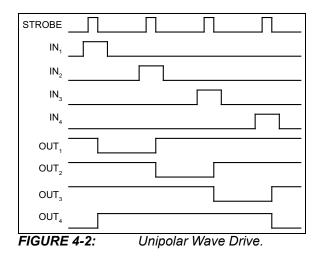
Characteristics: $T_A = +25^{\circ}C$; Logic levels are V_{DD} and Ground; $V_{DD} = 5V$.						
Condition	Min.	Тур.	Max.			
A. Minimum data active time before strobe enabled (data set-up time)	50 ns	_				
B. Minimum data active time after strobe disabled (data hold time)	50 ns	—	_			
C. Minimum strobe pulse width	125 ns	—	_			
D. Typical time between strobe activation and output on to off transition	—	500 ns	—			
E. Typical time between strobe activation and output off to on transition	_	500 ns	_			
F. Minimum clear pulse width	300 ns	_				
G. Minimum data pulse width	225 ns	—	_			

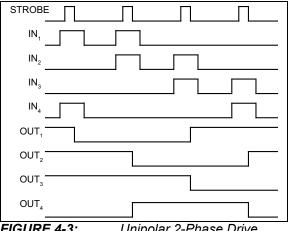
4.0 **TYPICAL APPLICATIONS**

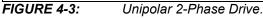


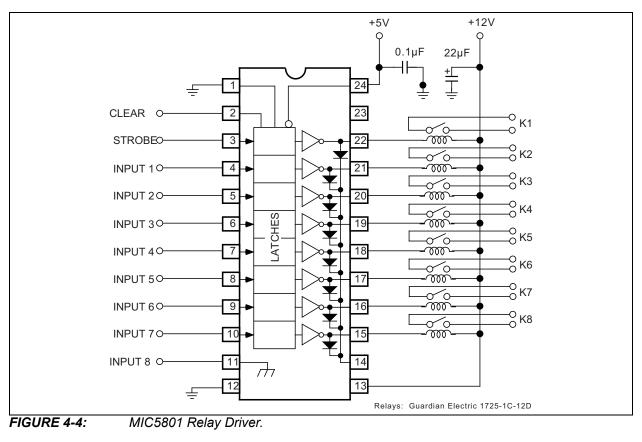


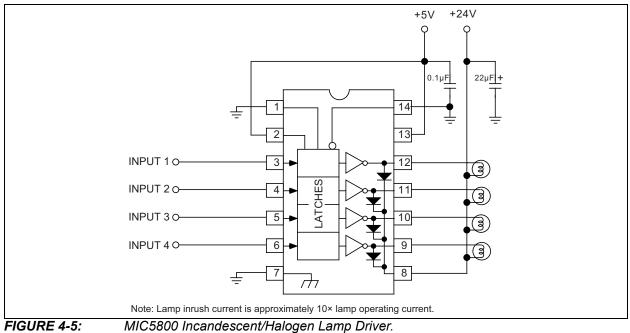
MIC5800 Unipolar Stepper-Motor Drive.





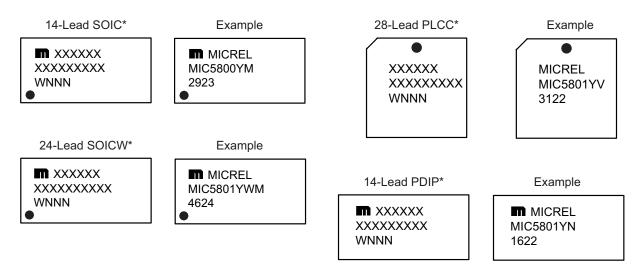






5.0 PACKAGING INFORMATION

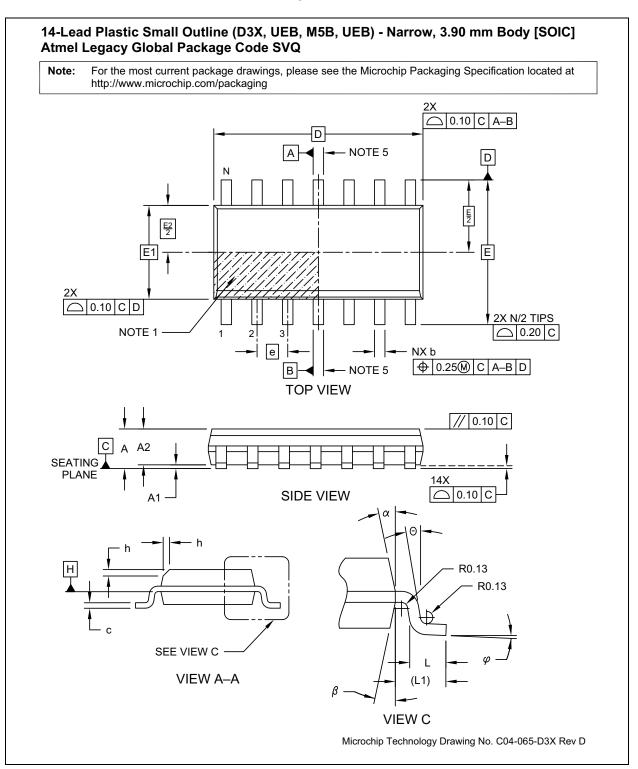
5.1 Package Marking Information

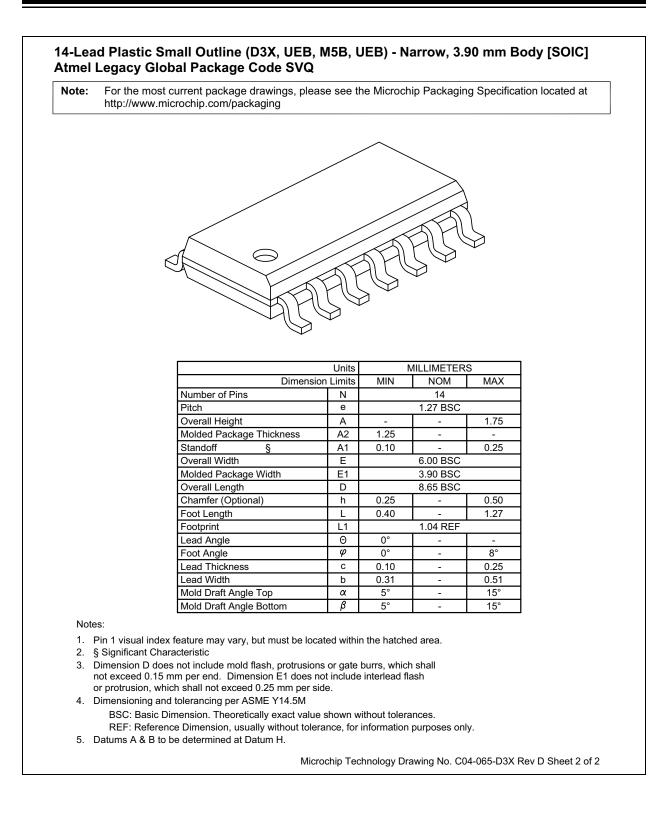


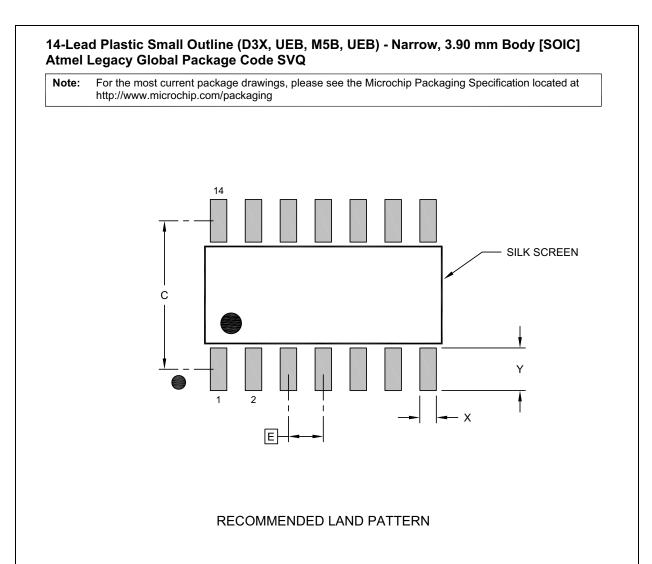
Legend:	Y YY WW NNN @3 *	Product code or customer-specific information Year code (last digit of calendar year) Year code (last 2 digits of calendar year) Week code (week of January 1 is week '01') Alphanumeric traceability code Pb-free JEDEC [®] designator for Matte Tin (Sn) This package is Pb-free. The Pb-free JEDEC designator (€3) can be found on the outer packaging for this package. Pin one index is identified by a dot, delta up, or delta down (triangle
k c t	be carried characters he corpor	nt the full Microchip part number cannot be marked on one line, it will d over to the next line, thus limiting the number of available for customer-specific information. Package may or may not include ate logo. (_) and/or Overbar (⁻) symbol may not be to scale.

Note: If the full seven-character YYWWNNN code cannot fit on the package, the following truncated codes are used based on the available marking space:
6 Characters = YWWNNN; 5 Characters = WWNNN; 4 Characters = WNNN; 3 Characters = NNN; 2 Characters = NN; 1 Character = N

14-Lead Plastic Small Outline SOIC Package Outline and Recommended Land Pattern







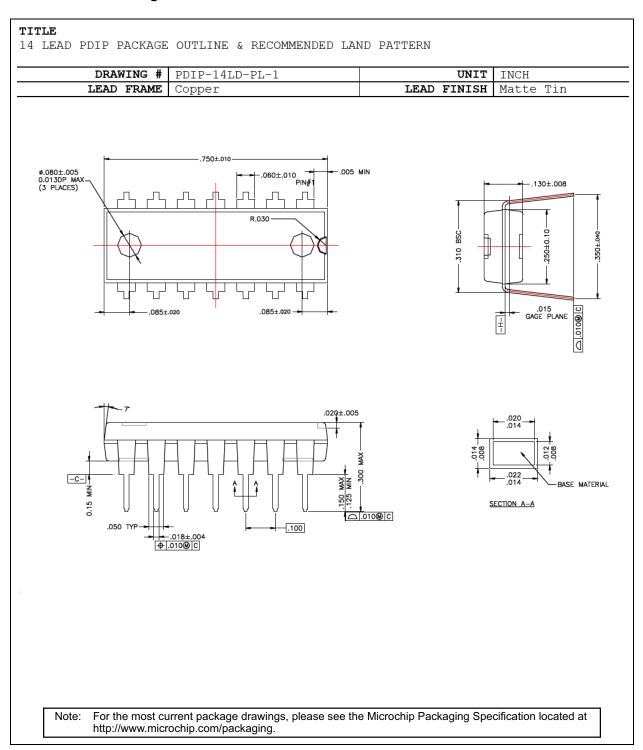
	MILLIMETERS			
Dimension	Dimension Limits			MAX
Contact Pitch	Е		1.27 BSC	
Contact Pad Spacing	Contact Pad Spacing C		5.40	
Contact Pad Width (X14)	Х			0.60
Contact Pad Length (X14)	Y			1.55

Notes:

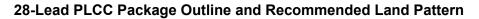
1. Dimensioning and tolerancing per ASME Y14.5M

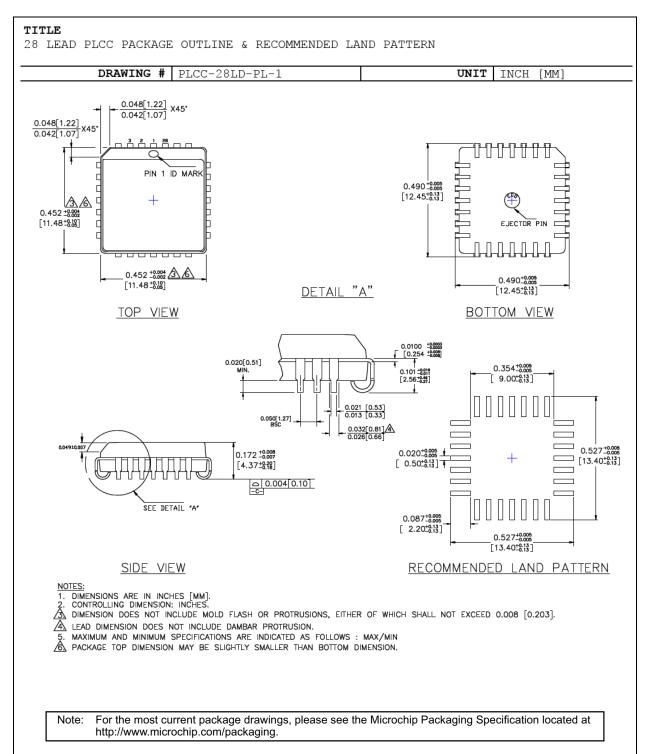
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

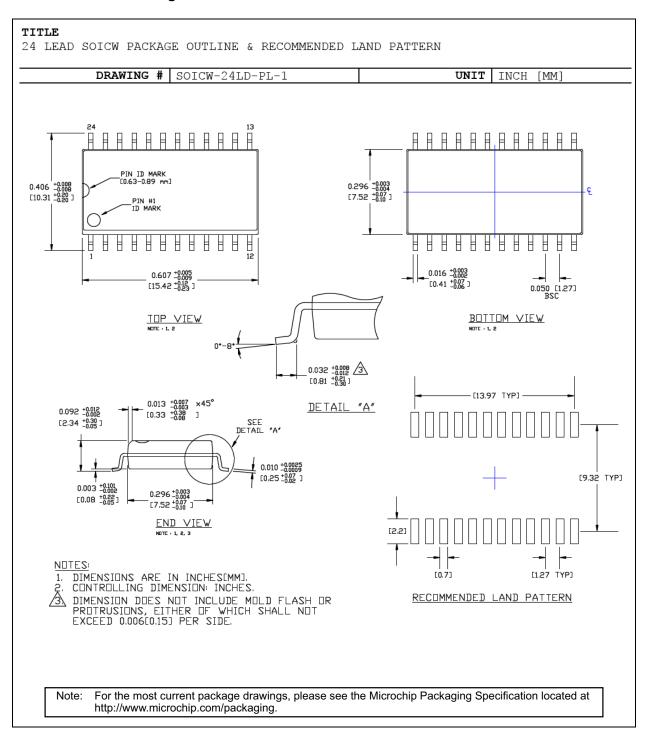
Microchip Technology Drawing No. C04-2065-D3X Rev D



14-Lead PDIP Package Outline and Recommended Land Pattern







24-Lead SOICW Package Outline and Recommended Land Pattern

NOTES:

APPENDIX A: REVISION HISTORY

Revision A (April 2019)

- Converted Micrel document MIC5800/1 to Microchip data sheet template DS20006184A.
- Minor grammatical text changes throughout.

Revision B (February 2022)

• Corrected the device marking specification in section 5.1 "Package Marking Information".

NOTES:

PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, contact your local Microchip representative or sales office.

				Examples:	
Device Part No.	<u>لا</u> Junction Temp Range	XX Package	- <u>XX</u> Media Type	a) MIC5800YM:	MIC5800, –40°C to +85°C Temperature Range, 14-Lead SOIC, 54/Tube
Device:	MIC5800:	4-Bit Parallel-Input, Hig Current Latched Driver		b) MIC5800YM-TR:	MIC5800, –40°C to +85°C Temperature Range, 14-Lea SOIC, 2,500/Reel
	MIC5801:	8-Bit Parallel-Input, Hig Current Latched Driver		c) MIC5800YN:	MIC5800, –40°C to +85°C Temperature Range, 14-Lea PDIP, 25/Tube
Junction Temperature Range:	Y = -40°C	C to +85°C, Industrial		d) MIC5801YV:	MIC5801, –40°C to +85°C Temperature Range, 28-Lea PLCC, 38/Tube
Package:	N = 14-Le V = 28-Le	ad SOIC (MIC5800) ad PDIP (MIC5800) ad PLCC (MIC5801)		e) MIC5801YV-TR:	MIC5801, –40°C to +85°C Temperature Range, 28-Lea PLCC, 750/Reel
		ead Wide SOIC (MIC580 ibe (M, MIC5800)	11)	f) MIC5801YWM:	MIC5801, –40°C to +85°C Temperature Range, 24-Lea Wide SOIC, 31/Tube
Media Type:	<blank>= 38/Tu <blank>= 31/Tu TR = 750/F</blank></blank>	ibe (N, MIC5800) ibe (V, MIC5801) ibe (WM, MIC5801) Reel (V, MIC5801) /Reel (WM, MIC5801)		g) MIC5801YWM-TI	R: MIC5801, -40°C to +85°C Temperature Range, 24-Lea Wide SOIC, 1,000/Reel
		/Reel (M, MIC5800)		catalog pa used for c the device Sales Offi	Reel identifier only appears in the art number description. This identifier is ordering purposes and is not printed on e package. Check with your Microchip ice for package availability with the Reel option.

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