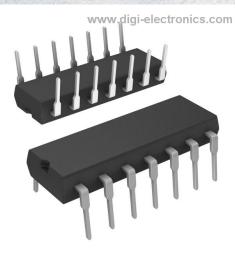


# **MIC5800YN** Datasheet



DiGi Electronics Part NumberMIC5800YN-DGManufacturerMicrochip TechnologyManufacturer Product NumberMIC5800YNDescriptionIC PWR DRIVER BIPOLAR 1:1 14DIPDetailed DescriptionPower Switch/Driver 1:1 Bipolar 500mA 14-DIP

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### Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MIC5800YN	Microchip Technology
Series:	Packaging:
	Tube
Part Status:	Switch Type:
Active	Latched Driver
Number of Outputs:	Ratio - Input:Output:
4	1:1
Output Configuration:	Output Type:
Low Side	Bipolar
Interface:	Voltage - Load:
Strobe, Parallel	50V (Max)
Voltage - Supply (Vcc/Vdd):	Current - Output (Max):
	500mA
Rds On (Typ):	Input Type:
-	-
Features:	Fault Protection:
-	
Operating Temperature:	Mounting Type:
-40°C ~ 85°C (TA)	Through Hole
Supplier Device Package:	Package / Case:
14-DIP	14-DIP (0.300", 7.62mm)
Base Product Number:	
MIC5800	

### **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0060	



### 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

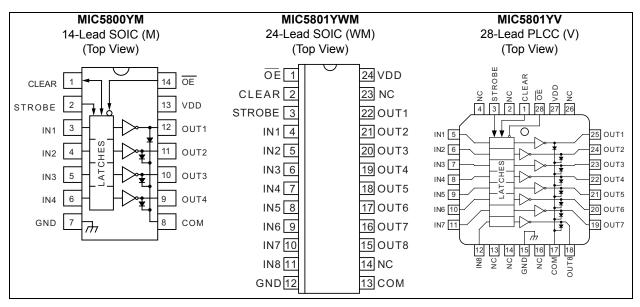
#### **General Description**

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.

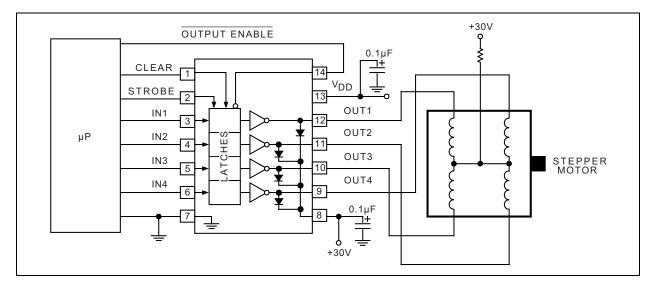
The bipolar/MOS combination provides an extremely low-power latch with maximum interface flexibility. MIC5800 contains four latched drivers; MIC5801 contains eight latched drivers.

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.

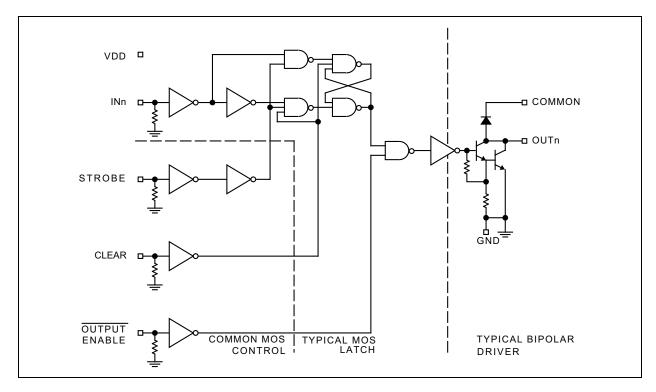
#### Package Types



#### **Typical Application Circuit**



#### **Functional Block Diagram**



### 1.0 ELECTRICAL CHARACTERISTICS

#### Absolute Maximum Ratings †

Output Voltage (V <sub>CE</sub> )	+50V
Supply Voltage (V <sub>DD</sub> )	+15V
Input Voltage Range (V <sub>IN</sub> )	
Continuous Collector Current (I <sub>C</sub> )	
ESD Rating (Note 1)	

#### **Operating Ratings ††**

Package Power Dissipation (P <sub>D</sub> )	
MIC5800 SOIC	1.0W
Derate above T <sub>A</sub> = +25°C	8.5 mW/°C
MIC5801 PLCC	
Derate above T <sub>A</sub> = +25°C	
MIC5801 Wide SOIC	
Derate above T <sub>A</sub> = +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.

<b>Electrical Characteristics</b>	: V <sub>DD</sub> = 5V,	T <sub>A</sub> = +2	5°C, V <sub>A</sub> ≤	+85°C u	nless oth	erwise noted. Note 1
Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions
			—	50		V <sub>CE</sub> = 50V, T <sub>A</sub> = +25°C
Output Leakage Current	I <sub>CEX</sub>			100	μA	V <sub>CE</sub> = 50V, T <sub>A</sub> = +70°C
			0.9	1.1		I <sub>C</sub> = 100 mA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	_	1.1	1.3	V	I <sub>C</sub> = 200 mA
		_	1.3	1.6		I <sub>C</sub> = 350 mA, V <sub>DD</sub> = 7.0V
Input Voltage (Low)	V <sub>IN(0)</sub>	_		1.0	V	_
		10.5		_		V <sub>DD</sub> = 12V
nput Voltage (High)	V <sub>IN(1)</sub>	8.5		_	V	V <sub>DD</sub> = 10V
		3.5		_		V <sub>DD</sub> = 5V, Note 2
		50	200	—		V <sub>DD</sub> = 12V
Input Resistance	R <sub>IN</sub>	50	300	_	kΩ	V <sub>DD</sub> = 10V
		50	600	_		V <sub>DD</sub> = 5V
		_	1.0	2.0		V <sub>DD</sub> = 12V, Outputs Open
Supply Current ON (Each Stage)	I <sub>DD(ON)</sub>	—	0.9	1.7	mA	V <sub>DD</sub> = 10V, Outputs Open
		—	0.7	1.0		V <sub>DD</sub> = 5V, Outputs Open
Supply Current OFF	1	—	_	200		V <sub>DD</sub> = 12V, Outputs Open, Inputs = 0V
(Total)	I <sub>DD(OFF)</sub>	—	50	100	μA	V <sub>DD</sub> = 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 <sub>DD</sub> = 5V	T <sub>A</sub> = +2	5°C, V <sub>A</sub> ≤	+85°C u	nless oth	erwise noted. Note 1
Parameter	Sym.	Min.	Тур.	Max.	Units	Conditions
Clamp Diode Leakage				50	۵	V <sub>R</sub> = 50V, T <sub>A</sub> = +25°C
Current	<sup>I</sup> R	_	_	100	μA	V <sub>R</sub> = 50V, T <sub>A</sub> = +70°C
Clamp Diode Forward Voltage	V <sub>F</sub>		1.7	2.0	V	I <sub>F</sub> = 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	Strobe	Clear	/OE	OL	IT <sub>N</sub>
IN <sub>N</sub>	Strobe	Clear	/0E	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
X	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 <sub>S</sub>	-65	—	+125	°C	—
Operating Temperature Range	T <sub>A</sub>	-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<sub>A</sub>, T<sub>J</sub>, θ<sub>JA</sub>). 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

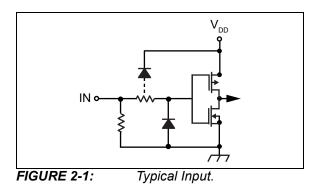
The descriptions of the pins are listed in Table 2-1 and Table 2-2.

IADLE Z-I.	WIC5000 FIN	FUNCTION TABLE
Pin Number	Pin Name	Description
1	CLEAR	Resets all latches and turns all outputs OFF (open).
2	STROBE	Input strobe pin. Loads output latches when high.
3, 4, 5, 6	IN <sub>N</sub>	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 <sub>N</sub>	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.

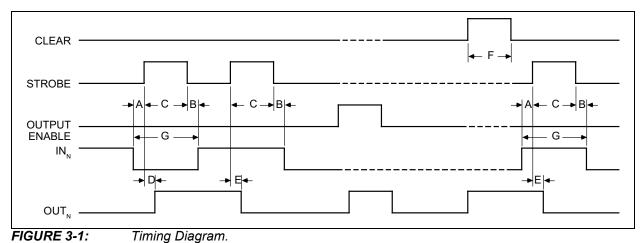
#### TABLE 2-1: MIC5800 PIN FUNCTION TABLE

#### 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 <sub>N</sub>	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 <sub>N</sub>	Parallel outputs, 8 through 1.
24	27	VDD	Logic Supply Voltage.



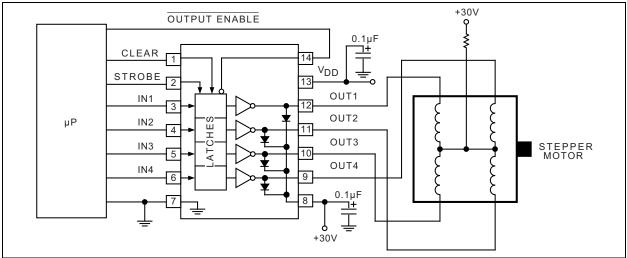
#### 3.0 TIMING



### TABLE 3-1: TIMING CONDITIONS

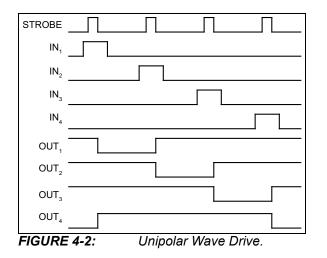
<b>Characteristics:</b> $T_A$ = +25°C; Logic levels are V <sub>DD</sub> and Ground; V <sub>DD</sub> = 5V.			
Condition	Min.	Тур.	Max.
A. Minimum data active time before strobe enabled (data set-up time)	50 ns	—	
B. Minimum data active time after strobe disabled (data hold time)	50 ns		
C. Minimum strobe 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.



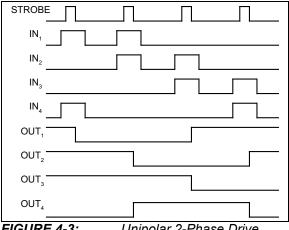
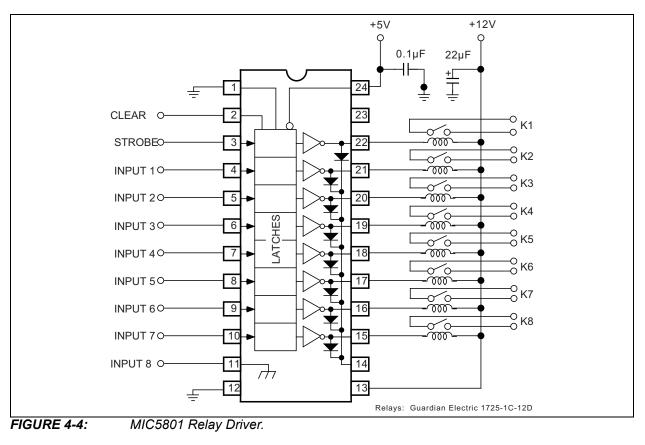
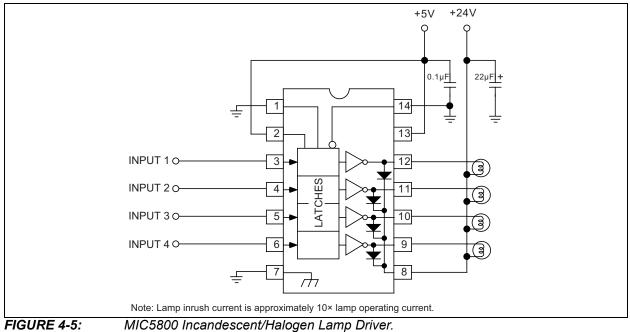


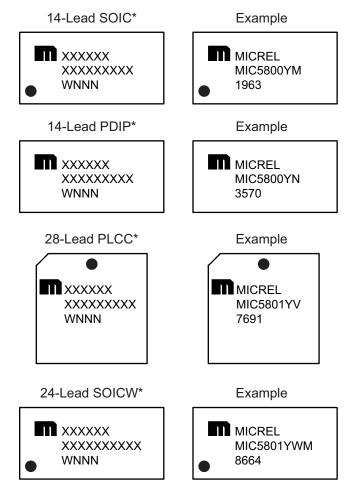
FIGURE 4-3: Unipolar 2-Phase Drive.





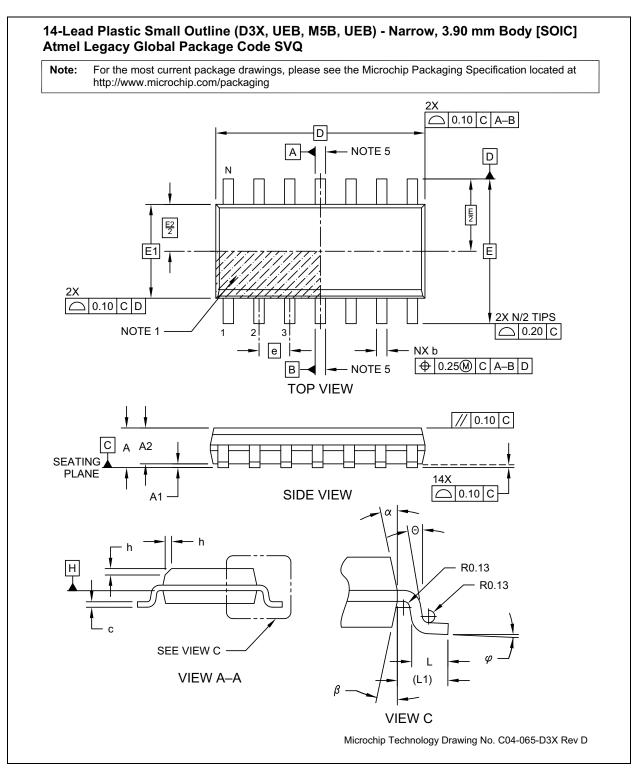
#### 5.0 PACKAGING INFORMATION

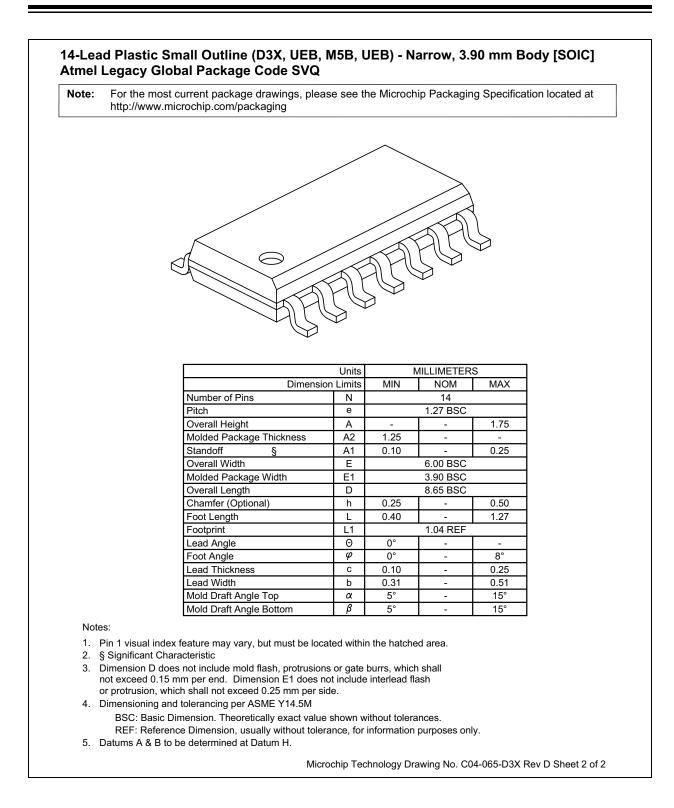
#### 5.1 Package Marking Information

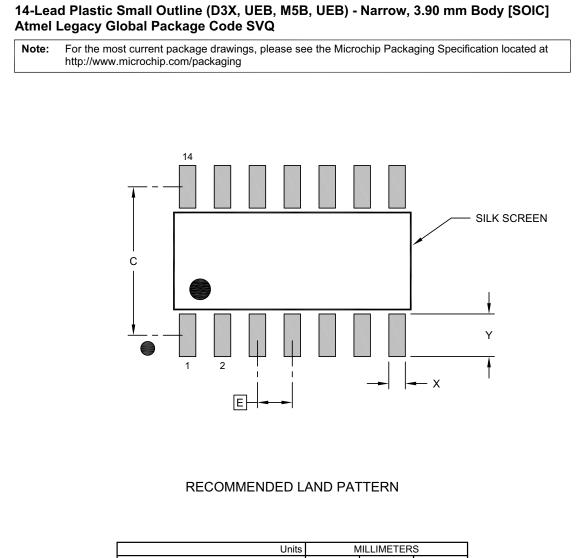


Legend: XXX Product code or customer-specific information Y Year code (last digit of calendar year) YY Year code (last 2 digits of calendar year) WW Week code (week of January 1 is week '01') NNN Alphanumeric traceability code (e3) Pb-free JEDEC <sup>®</sup> designator for Matte Tin (Sn)
<ul> <li>* This package is Pb-free. The Pb-free JEDEC designator (€3)) can be found on the outer packaging for this package.</li> <li>•, ▲, ▼ Pin one index is identified by a dot, delta up, or delta down (trian mark).</li> </ul>
Note: In the event the full Microchip part number cannot be marked on one line, it be carried over to the next line, thus limiting the number of availa characters for customer-specific information. Package may or may not inclut the corporate logo. Underbar (_) and/or Overbar ( <sup>-</sup> ) symbol may not be to scale.

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







	Units		MILLIMETERS		
Dimension	Dimension Limits		NOM	MAX	
Contact Pitch	E		1.27 BSC		
Contact Pad Spacing	С		5.40		
Contact Pad Width (X14)	Х			0.60	
Contact Pad Length (X14)	Y			1.55	

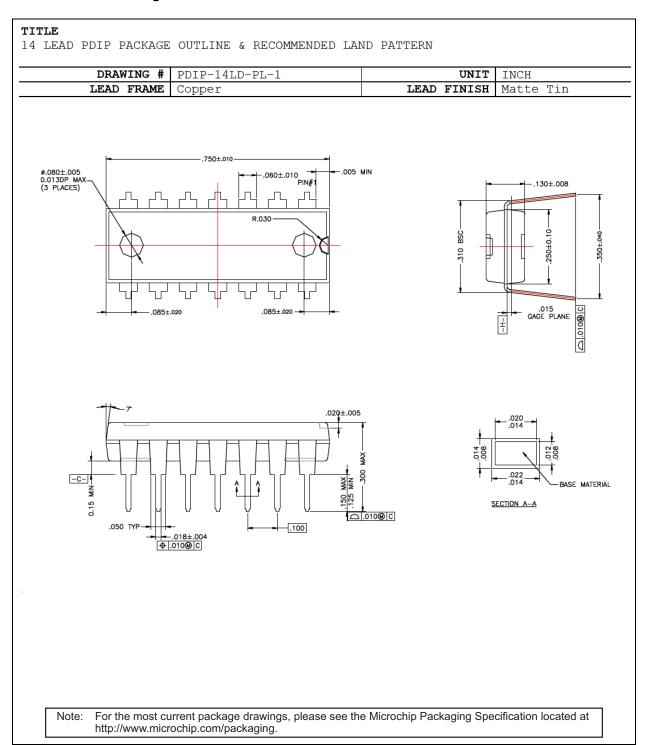
Notes:

1. Dimensioning and tolerancing per ASME Y14.5M

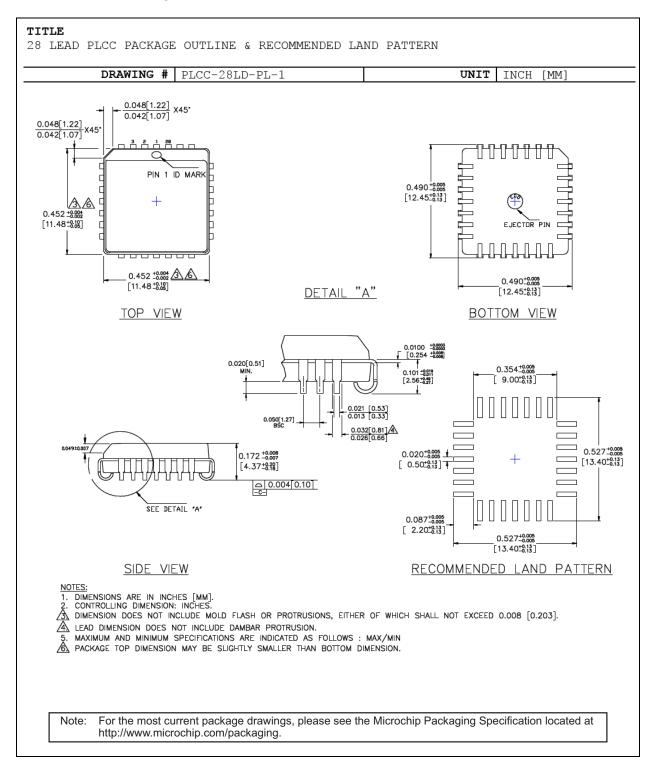
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

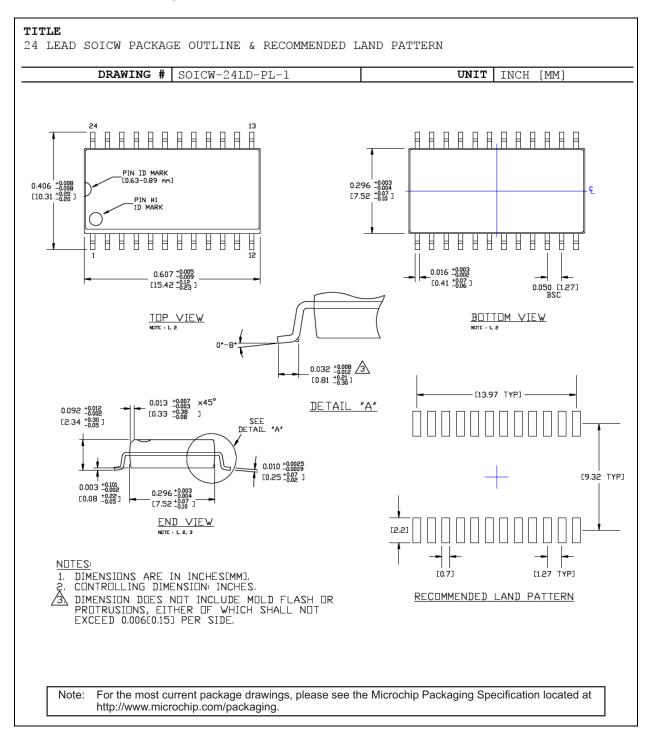
Microchip Technology Drawing No. C04-2065-D3X Rev D

#### 14-Lead PDIP Package Outline and Recommended Land Pattern



#### 28-Lead PLCC 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.

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.	<b>Ⅹ</b> Junction Temp. Range	<u>XX</u> Package	- <u>XX</u> Media Type	a) MIC5800YM:	MIC5800, –40°C to +85°C Temperature Range, 14-Leac SOIC, 54/Tube
Device:	MIC5800: 4-Bit Parallel-Input, Hi Current Latched Drive MIC5801: 8-Bit Parallel-Input. Hi		r	b) MIC5800YM-TR:	MIC5800, -40°C to +85°C Temperature Range, 14-Leac SOIC, 2,500/Reel
		8-Bit Parallel-Input, High-Voltage, High- Current Latched Driver		c) MIC5800YN:	MIC5800, –40°C to +85°C Temperature Range, 14-Leac PDIP, 25/Tube
Junction Temperature Range:	$Y = -40^{\circ}C \text{ to}$	+85°C, Industrial		d) MIC5801YV:	MIC5801, -40°C to +85°C Temperature Range, 28-Leac PLCC, 38/Tube
Package:	V = 28-Lead PLCC (MIC5801)		e) MIC5801YV-TR:		MIC5801, -40°C to +85°C Temperature Range, 28-Leac PLCC, 750/Reel
 <blank>= 54/Tube (1 <blank>= 25/Tube (1 <blank>= 25/Tube (1 <blank>= 38/Tube (\ <blank>= 31/Tube (\ TR = 750/Reel ( TR = 1,000/Ree</blank></blank></blank></blank></blank>	Vide SOIC (MIC5801) M, MIC5800)		f) MIC5801YWM:	MIC5801,40°C to +85°C Temperature Range, 24-Leac Wide SOIC, 31/Tube	
	<blank>= 38/Tube <blank>= 31/Tube TR = 750/Reel</blank></blank>	25/Tube (N, MIC5800) 38/Tube (V, MIC5801) 31/Tube (WM, MIC5801) 750/Reel (V, MIC5801) 1,000/Reel (WM, MIC5801)		g) MIC5801YWM-TR	: MIC5801, -40°C to +85°C Temperature Range, 24-Leac Wide SOIC, 1,000/Reel
		el (M, MIC5800)		catalog par used for or the device Sales Offic	Reel identifier only appears in the t number description. This identifier is dering purposes and is not printed on package. Check with your Microchip e for package availability with the Reel option.

NOTES:

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