

# Product Change Notification / SYST-17WQJD265

# Date:

18-Feb-2022

# **Product Category:**

Driver / Interface ICs

# **PCN Type:**

**Document Change** 

# **Notification Subject:**

Data Sheet - MIC5891 - 8-Bit Serial-Input Latched Source Driver

# **Affected CPNs:**

SYST-17WQJD265\_Affected\_CPN\_02182022.pdf SYST-17WQJD265\_Affected\_CPN\_02182022.csv

# **Notification Text:**

SYST-17WQJD265

Microchip has released a new Product Documents for the MIC5891 - 8-Bit Serial-Input Latched Source Driver of devices. If you are using one of these devices please read the document located at MIC5891 - 8-Bit Serial-Input Latched Source Driver.

Notification Status: Final

**Description of Change:** Corrected the device marking specification in Section 5.1, Package Marking Information. **Impacts to Data Sheet:** None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 18 Feb 2022

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

Markings to Distinguish Revised from Unrevised Devices: N/A

# **Attachments:**

MIC5891 - 8-Bit Serial-Input Latched Source Driver

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# **MIC5891**

# 8-Bit Serial-Input Latched Source Driver

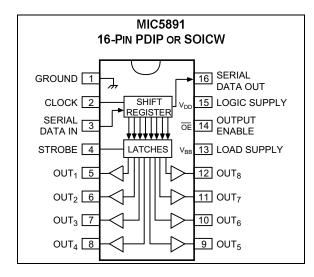
## Features

- · High-Voltage, High-Current Outputs
- Output Transient Protection Diodes
- CMOS-, PMOS-, NMOS-, and TTL-Compatible
  Inputs
- 5 MHz Typical Data Input Rate
- Low-Power CMOS Latches

## Applications

- Alphanumeric and Bar Graph Displays
- LED and Incandescent Displays
- Relay and Solenoid Drivers
- Other High-Power Loads

## Package Type



## **General Description**

The MIC5891 latched driver is a high-voltage, high-current integrated circuit comprised of eight CMOS data latches, CMOS control circuitry for the common STROBE and OUTPUT ENABLE, and bipolar Darlington transistor drivers for each latch.

Bipolar/MOS construction provides extremely low power latches with maximum interface flexibility.

The MIC5891 will typically operate at 5 MHz with a 5V logic supply.

The CMOS inputs are compatible with standard CMOS, PMOS, and NMOS logic levels. TTL circuits may be used with appropriate pull-up resistors to ensure a proper logic-high input.

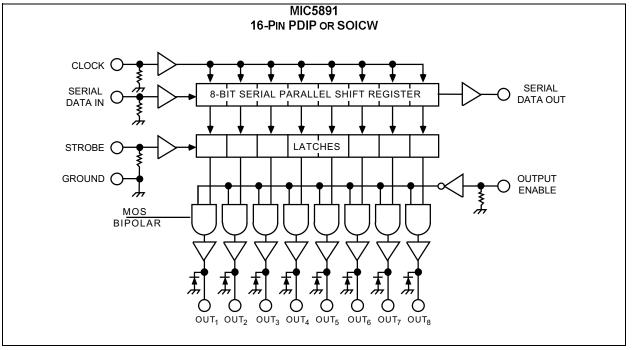
A CMOS serial data output allows additional drivers to be cascaded when more than 8 bits are required.

The MIC5891 has open-emitter outputs with suppression diodes for protection against inductive load transients. The output transistors are capable of sourcing 500 mA and will sustain at least 35V in the on-state.

Simultaneous operation of all drivers at maximum rated current requires a reduction in duty cycle due to package power limitations. Outputs may be paralleled for higher load current capability.

The MIC5891 is available in a 16-pin plastic DIP package (N) and 16-pin wide SOIC package (WM).

## **Functional Diagram**



# 1.0 ELECTRICAL CHARACTERISTICS

# Absolute Maximum Ratings † (Note 1, Note 2, Note 3)

Output Voltage (V <sub>OUT</sub> )	+50V
Logic Supply Voltage Range (V <sub>DD</sub> )	
Load Supply Voltage Range (V <sub>BB</sub> )	
Input Voltage Range (V <sub>IN</sub> )	
Continuous Collector Current (I <sub>C</sub> )	
Package Power Dissipation	

**†** Notice: Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at those or any other conditions above those indicated in the operational sections of this specification is not intended. Exposure to maximum rating conditions for extended periods may affect device reliability.

## Note 1: T<sub>A</sub> = +25°C.

- **2:** Derate at the rate of 20 mW/°C above  $T_A = +25$ °C.
- **3:** Microchip CMOS devices have input-static protection, but are susceptible to damage when exposed to extremely high static electrical charges.

Number of Outputs ON at	Maximum Allowable Duty Cycles at a T <sub>A</sub> of:							
I <sub>OUT</sub> = -200 mA	+50°C	+60°C	+70°C					
8	53%	47%	41%					
7	60%	54%	48%					
6	70%	64%	56%					
5	83%	75%	67%					
4	100%	94%	84%					
3	100%	100%	100%					
2	100%	100%	100%					
1	100%	100%	100%					

## TABLE 1-1: ALLOWABLE DUTY CYCLES

## **Electrical Characteristics**

Electrical Characteristics: $V_{BB}$ = 50V, $V_{DD}$ = 5V to 12V; $T_A$ = 25°C, unless noted. (Note 1).								
Parameters	Sym.	Min.	Тур.	Max.	Units	Conditions		
		_	_	-50	μA	T <sub>A</sub> = +25°C		
Output Leakage Current	CEX	_		-100	μA	T <sub>A</sub> = +85°C		
		_	_	2.3	V	l <sub>OUT</sub> = –100 mA, T <sub>A</sub> = +85°C		
Output Saturation Voltage	V <sub>CE(SAT)</sub>	_	_	2.4	V	l <sub>OUT</sub> = –225 mA, T <sub>A</sub> = +85°C		
		_	_	2.5	V	l <sub>OUT</sub> = –350 mA, T <sub>A</sub> = +85°C		
Output Sustaining Voltage	V <sub>CE(SUS)</sub>	35		—	V	l <sub>OUT</sub> = –350 mA, L = 2 mH		
		3.5	_	V <sub>DD</sub> +0.3	V	V <sub>DD</sub> = 5.0V		
Input Voltage	V <sub>IN(1)</sub> V <sub>IN(0)</sub>	10.5		V <sub>DD</sub> +0.3	V	V <sub>DD</sub> = 12V		
	• IN(U)	V <sub>SS</sub> -0.3	_	0.8	V	V <sub>DD</sub> = 5.0V to 12V		
Input Current		_	_	120	μA	V <sub>DD</sub> = V <sub>IN</sub> = 5.0V		
Input Current	IN(1)	—	_	240	μA	V <sub>DD</sub> = 12V		
Input Impedance	7	100	_	—	kΩ	V <sub>DD</sub> = 5.0V		
	Z <sub>IN</sub>	50		—	kΩ	V <sub>DD</sub> = 12V		
Maximum Clock Frequency	f <sub>c</sub>	3.3			MHz	—		
Serial Data Output Resistance	D	—	_	20	kΩ	V <sub>DD</sub> = 5.0V		
Senai Dala Oulput Resistance	Rout	—	_	6.0	kΩ	V <sub>DD</sub> = 12V		
Turn-On Delay	t <sub>PLH</sub>	—	—	2.0	μs	Output Enable to Output, I <sub>OUT</sub> = –350 mA		
Turn-Off Delay	t <sub>PHL</sub>	_	_	10	μs	Output Enable to Output, I <sub>OUT</sub> = –350 mA		
		_	_	10	mA	All outputs on, all outputs open		
	IBB	_	_	200	μA	All outputs off		
		—	_	100	μA	V <sub>DD</sub> = 5V, all outputs off, inputs = 0V		
Supply Current		_	_	200	μA	V <sub>DD</sub> = 12V, all outputs off, inputs = 0V		
	IDD	_	_	1.0	mA	V <sub>DD</sub> = 5V, one output on, inputs = 0V		
		_	_	3.0	mA	V <sub>DD</sub> = 12V, one output on, inputs = 0V		
Diada Laskara Current				50	μA	T <sub>A</sub> = +25°C; Max. V <sub>BB</sub>		
Diode Leakage Current	I <sub>H</sub>		_	100	μA	T <sub>A</sub> = +85°C; Max. V <sub>BB</sub>		
Diode Forward Voltage	V <sub>F</sub>		_	2.0	V	I <sub>F</sub> = 350 mA; V <sub>BB</sub> open		

Note 1: Specification for packaged product only.

2: Positive (negative) current is defined as going into (coming out of) the specified device pin.

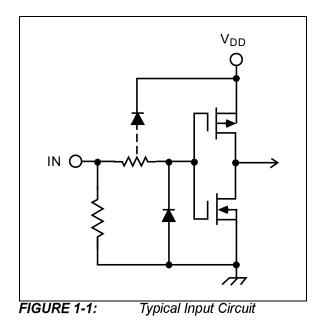
**3:** Operation of these devices with standard TTL may require the use of appropriate pull-up resistors.

## **TEMPERATURE SPECIFICATIONS**

Parameters	Sym.	Min.	Тур.	Max.	Units	Conditions	
Temperature Ranges							
Operating Temperature Range	T <sub>A</sub>	-40	_	+85	°C	Note 1	
Storage Temperature Range	Τs	-65		+150	°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.

# **Typical Circuits**



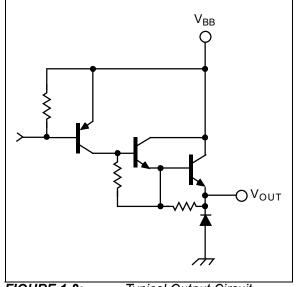


FIGURE 1-2: Typical Output Circuit.

# 2.0 TYPICAL PERFORMANCE CURVES

**Note:** The graphs and tables provided following this note are a statistical summary based on a limited number of samples and are provided for informational purposes only. The performance characteristics listed herein are not tested or guaranteed. In some graphs or tables, the data presented may be outside the specified operating range (e.g., outside specified power supply range) and therefore outside the warranted range.

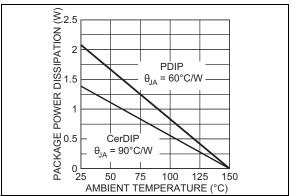


FIGURE 2-1: Allowable Package Power Dissipation vs. Temperature.

# 3.0 TIMING CONDITIONS

The descriptions of the timing conditions are listed below Figure 3-1.

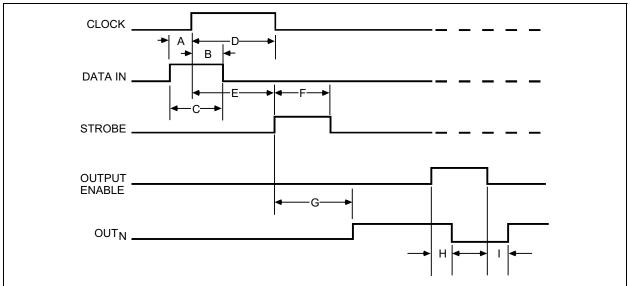


FIGURE 3-1: Timing Conditions.

## TABLE 3-1: TIMING CONDITIONS PARAMETERS

Reference	Parameter	Value
А	Minimum data active time before clock pulse (data set-up time)	75 ns
В	Minimum data active time after clock pulse (data hold time)	75 ns
С	Minimum data pulse width	150 ns
D	Minimum clock pulse width	150 ns
Е	Minimum time between clock activation and strobe	300 ns
F	Minimum strobe pulse width	100 ns
G	Typical time between strobe activation and output transition	1.0 µs
Н	Turn-off delay	See Electrical Characteristics
	Turn-on delay	See Electrical Characteristics

## TABLE 3-2: TRUTH TABLE

Serial Data	Clock	Shift Register Contents	Serial Data	Strobe	Latch Contents	Output Enable	Output Content
Input	Input	l <sub>1</sub> l <sub>2</sub> l <sub>3</sub> l <sub>N-1</sub> l <sub>N</sub>	Output	Input	l <sub>1</sub> l <sub>2</sub> l <sub>3</sub> l <sub>N-1</sub> l <sub>N</sub>	Ellaple	l <sub>1</sub> l <sub>2</sub> l <sub>3</sub> l <sub>N-1</sub> l <sub>N</sub>
Н		$H R_1 R_2 R_{N-2} R_{N-1}$	R <sub>N-1</sub>				
L		$L R_1 R_2 R_{N-2} R_{N-1}$	R <sub>N-1</sub>	_	—	_	_
Х	7	$R_1 R_2 R_3 R_{N-1} R_N$	R <sub>N</sub>				
		X X X X X	Х	L	$R_1 R_2 R_3 R_{N-1} R_N$		
—	—	$P_1 P_2 P_3 P_{N-1} P_N$	P <sub>N</sub>	Н	$P_1 P_2 P_3 P_{N-1} P_N$	L	$P_1 P_2 P_3 P_{N-1} P_N$
					X X X X X	Н	

L = Low Logic Level, H = High Logic Level, X = Irrelevant, P = Present State, R = Previous State.

# 4.0 **APPLICATION INFORMATION**

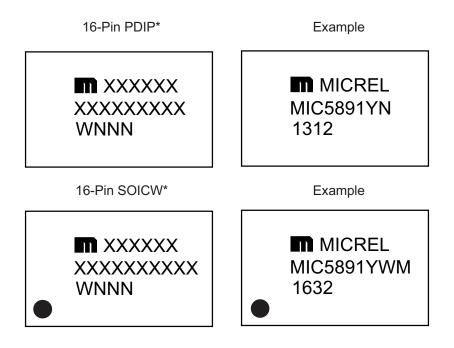
Serial data present at the input is transferred into the shift register on the rising edge of the CLOCK input pulse. Additional CLOCK pulses shift data information towards the SERIAL DATA OUTPUT. The serial data must appear at the input prior to the rising edge of the CLOCK input waveform.

The 8 bits present in the shift register are transferred to the respective latches when the STROBE is high (serial-to-parallel conversion). The latches will continue to accept new data as long as the STROBE is held high. Most applications where the latching feature is not used (STROBE tied high) require the OUTPUT ENABLE input to be high during serial data entry.

Outputs are active (controlled by the latch state) when the OUTPUT ENABLE is low. All outputs are low (disabled) when the OUTPUT ENABLE is high. OUTPUT ENABLE does not affect the data in the shift register or latch.

# 5.0 PACKAGING INFORMATION

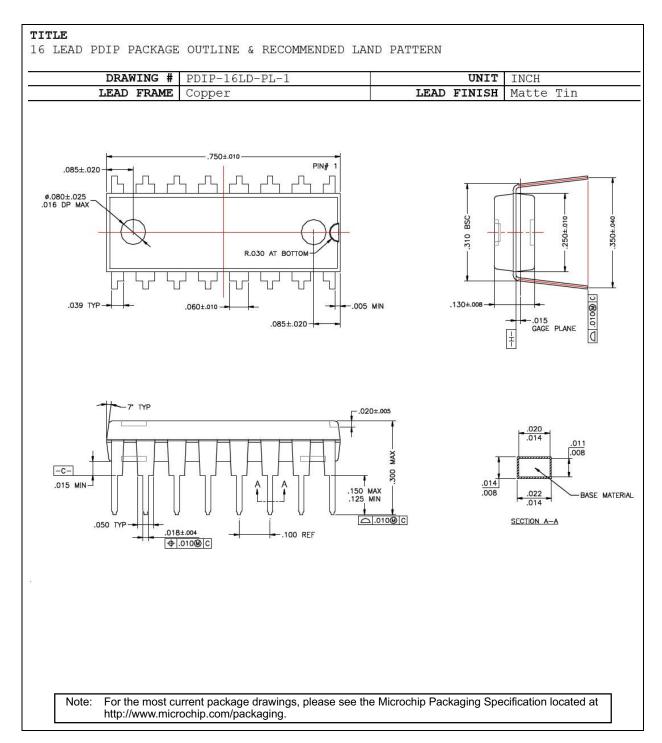
## 5.1 Package Marking Information

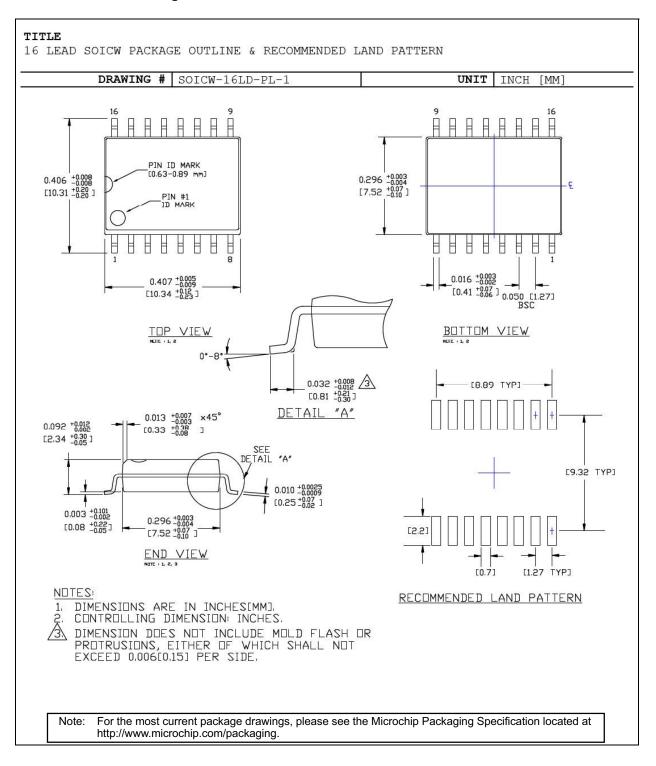


r		
Legend:	Y YY WW NNN @3 *	Product code or customer-specific information Year code (last digit of calendar year) Year code (last 2 digits of calendar year) Week code (week of January 1 is week '01') Alphanumeric traceability code Pb-free JEDEC <sup>®</sup> designator for Matte Tin (Sn) This package is Pb-free. The Pb-free JEDEC designator ((e3)) can be found on the outer packaging for this package. Pin one index is identified by a dot, delta up, or delta down (triangle
b c tř	e carrieo haracters 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 ( <sup>-</sup> ) 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

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





## 16-Lead SOICW Package Outline and Recommended Land Pattern

# APPENDIX A: REVISION HISTORY

## **Revision A (October 2016)**

- Converted Micrel document MIC5891 to Microchip data sheet DS20005638B.
- Minor text changes throughout.
- Operating temperature range corrected in the Temperature Specifications section.
- Maximum Saturation Voltage values updated in Table .
- First Input Current maximum value updated in Table .

## **Revision B (February 2022)**

• Corrected the device marking specification in Section 5.1, Package Marking Information.

# **PRODUCT IDENTIFICATION SYSTEM**

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

		E	xamples:	
PART NO Device		a	) MIC5891YN:	8-Bit Serial-Input Latched Source Driver, –40°C to +85°C Junction Temperature Range, 16-Lead PDIP, 25/Tube
Device: Junction Temperature	MIC5891: 8-Bit Serial-Input Latched Source Driver Y = -40°C to +85°C	a	) MIC5891YWM:	8-Bit Serial-Input Latched Source Driver, –40°C to +85°C Junction Temperature Range, 16-Lead SOICW, 47/Tube
Range: Package:	N = 16-Lead PDIP WM = 16-Lead SOICW	a	) MIC5891YWM-TR:	8-Bit Serial-Input Latched Source Driver, –40°C to +85°C Junction Temperature Range, 16-Lead SOICW, 1,000/Reel
Media Type:	TR = 1,000/Reel for WM Package (blank)= 25/Tube for N Package (blank)= 47/Tube for WM Package			

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Spain - Madrid Tel: 34-91-708-08-90 Fax: 34-91-708-08-91

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SYST-17WQJD265 - Data Sheet - MIC5891 - 8-Bit Serial-Input Latched Source Driver

Affected Catalog Part Numbers(CPN)

MIC5891YN MIC5891YWM MIC5891YWM-TR