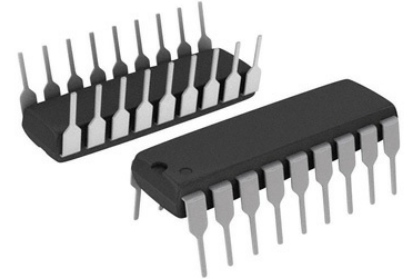


Shift Register/Latch/Driver Single 8-Bit Serial to Serial/Parallel 18-Pin PDIP Tube

Manufacturers	Microchip Technology, Inc
Package/Case	PDIP-18
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MIC5842YN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Using BiCMOS technology, the MIC5841/5842 integrated circuits were fabricated to be used in a wide variety of peripheral power driver applications. The devices each have an eight-bit CMOS shift register, CMOS control circuitry, eight CMOS data latches, and eight bipolar current-sink Darlington output drivers. These two devices differ only in maximum voltage ratings. The MIC5842 offers premium performance with a minimum output breakdown voltage rating of 80V (50V sustaining). The drivers can be operated with a split supply where the negative supply is down to -20V. The 500 mA outputs, with integral transient-suppression diodes, are suitable for use with lamps, relays, solenoids and other inductive loads. These devices have improved speed characteristics. With a 5V logic supply, they will typically operate faster than 5 MHz. With a 12V supply, significantly higher speeds are obtained. The CMOS inputs are compatible with standard CMOS, PMOS, and NMOS logic levels. TTL or DTL circuits may require the use of appropriate pull-up resistors. By using the serial data output, the drivers can be cascaded for interface applications requiring additional drive lines. The MIC5840 family is available in DIP, PLCC, and SOIC packages. Because of limitations on package power dissipation, the simultaneous operation of all drivers at maximum rated current might require a reduction in duty cycle. A copper-alloy lead frame provides for maximum package power dissipation.

Features

3.3 MHz Minimum Data-Input Rate

CMOS, PMOS, NMOS, TTL Compatible

Internal Pull-Up/Pull-Down Resistors

Low-Power CMOS Logic and Latches

High-Voltage Current-Sink Outputs

Output Transient-Protection Diodes

Single or Split Supply Operation

Related Products



[MIC94325YMT-TR](#)

Microchip Technology, Inc
UDFN-6



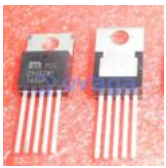
[MIC2009A-1YM6-TR](#)

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[MIC5841YWM-TR](#)

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SOIC-18



[MIC29152WT](#)

Microchip Technology, Inc
TO-220-5



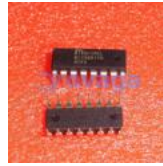
[MIC4684YM](#)

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PDIP-16



[MIC5209YM](#)

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SOIC-8