

MC74HC595A

8-Bit Serial-Input/Serial or Parallel-Output Shift Register with Latched 3-State Outputs

High-Performance Silicon-Gate CMOS

The MC74HC595A consists of an 8-bit shift register and an 8-bit D-type latch with three-state parallel outputs. The shift register accepts serial data and provides a serial output. The shift register also provides parallel data to the 8-bit latch. The shift register and latch have independent clock inputs. This device also has an asynchronous reset for the shift register.

The HC595A directly interfaces with the SPI serial data port on CMOS MPUs and MCUs.

Features

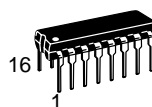
- Output Drive Capability: 15 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS, and TTL
- Operating Voltage Range: 2.0 to 6.0 V
- Low Input Current: 1.0 μ A
- High Noise Immunity Characteristic of CMOS Devices
- In Compliance with the Requirements Defined by JEDEC Standard No. 7A
- Chip Complexity: 328 FETs or 82 Equivalent Gates
- Improvements over HC595
 - Improved Propagation Delays
 - 50% Lower Quiescent Power
 - Improved Input Noise and Latchup Immunity
- Pb-Free Packages are Available*



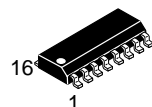
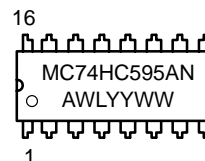
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<http://onsemi.com>

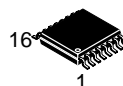
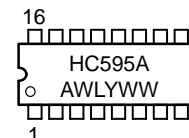
MARKING DIAGRAMS



PDIP-16
N SUFFIX
CASE 648



SOIC-16
D SUFFIX
CASE 751B



TSSOP-16
DT SUFFIX
CASE 948F



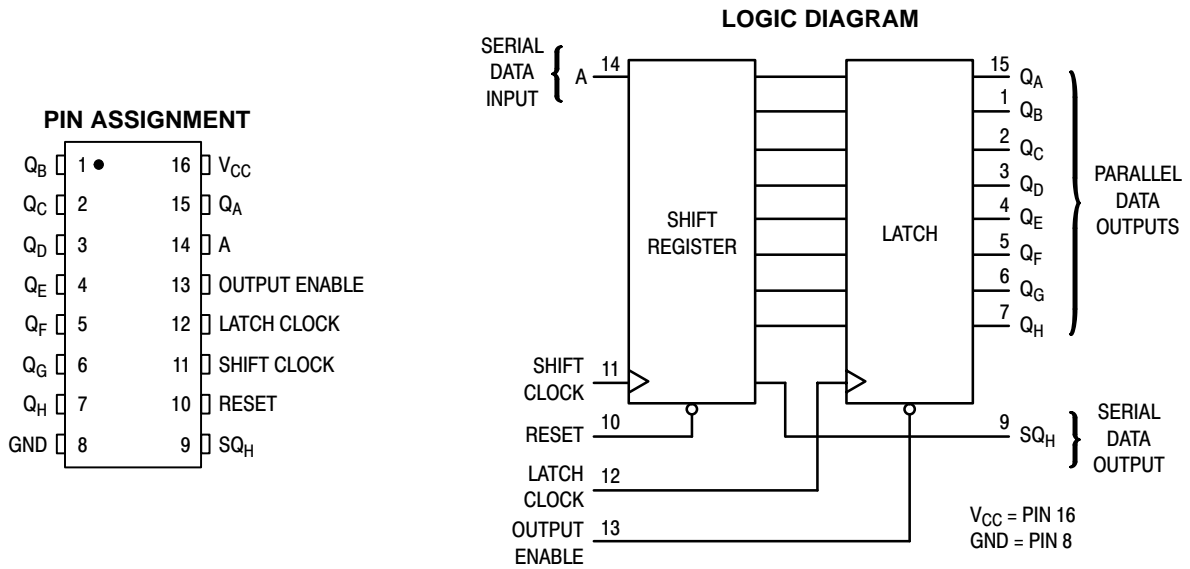
A = Assembly Location
L, WL = Wafer Lot
Y, YY = Year
W, WW = Work Week

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 2 of this data sheet.

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MC74HC595A



ORDERING INFORMATION

Device	Package	Shipping†
MC74HC595AN	PDIP-16	500 Units / Rail
MC74HC595ANG	PDIP-16 (Pb-Free)	500 Units / Rail
MC74HC595AD	SOIC-16	48 Units / Rail
MC74HC595ADG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74HC595ADR2	SOIC-16	2500 Tape & Reel
MC74HC595ADR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74HC595ADT	TSSOP-16*	96 Units / Rail
MC74HC595ADTR2	TSSOP-16*	2500 Tape & Reel
MC74HC595AFEL	SOEIAJ-16	2000 Tape & Reel
MC74HC595AFELG	SOEIAJ-16 (Pb-Free)	2000 Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

*This package is inherently Pb-Free.