

# 4 Bit Bidirectional Universal Shift Registers Ti

## [DOC] 4 Bit Bidirectional Universal Shift Registers Ti

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### 4 Bit Bidirectional Universal Shift

#### **4-Bit Bidirectional Universal Shift Registers datasheet**

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device 4-Bit Bidirectional Universal Shift Registers datasheet Author: Texas Instruments, Incorporated [SDLS075,\*] Subject: Data Sheet

#### **74LS194 4-Bit Bidirectional Universal Shift Register**

DM74LS194A 4-Bit Bidirectional Universal Shift Register 74LS194 4-Bit Bidirectional Universal Shift Register General Description This bidirectional shift register is designed to incorporate virtually all of the features a system designer may want in a shift register; they feature parallel inputs, parallel outputs, right-shift and left-shift

#### **4 Bit Bidirectional Universal Shift Registers Ti**

The Universal shift register is a combination design of bidirectional shift register and a unidirectional shift register with parallel load provision n-bit universal shift register - A n-bit universal shift register consists of n flip-flops and n 4×1 multiplexers

#### **DM74LS194A 4-Bit Bidirectional Universal Shift Register**

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#### **SN74LS194A 4–Bit Bidirectional Universal Shift Register**

4–Bit Bidirectional Universal Shift Register The SN74LS194A is a High Speed 4-Bit Bidirectional Universal Shift Register As a high speed multifunctional sequential building block, it is useful in a wide variety of applications It may be used in serial-serial, shift left, shift ...

**4 bit bidirectional shift register pdf**

4 bit bidirectional shift register pdf Two-way shift registers are storage devices that can transfer data to the right or left depending on the mode you choose Figure 1 shows a n-bit bidirectional shear register with a sequential data load and search capacity Initially all flip-flops in the register are discarded, driving their clear pins high

**SN54/74LS194A 4-BIT BIDIRECTIONAL UNIVERSAL SHIFT ...**

4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER The SN54/74LS194A is a High Speed 4-Bit Bidirectional Universal Shift Register As a high speed multifunctional sequential building block, it is useful in a wide variety of applications It may be used in serial-serial, shift left, shift

**4-bit bidirectional universal shift register**

4-bit bidirectional universal shift register 74F194 April 4, 1989 6 AC WAVEFORMS For all waveforms, VM = 15V The shaded areas indicate when the input is permitted to change for predictable output performance VM SF00171 CP Qn VM tw(H) tPHL VM tPLH 1/fMAX VM VM Waveform 1 Propagation Delay, Clock Input to Output, Clock Pulse Width, and

**NTE74S194 Integrated Circuit TTL 4 Bit Bidirectional ...**

TTL – 4–Bit Bidirectional Universal Shift Register Description: The NTE74S194 is a 4–bit bidirectional shift register in a 16–Lead plastic DIP type package designed to incorporate virtually all of the features a system designer may want is a shift register The circuit

**1. General description**

The 74HC194 is a 4-bit bidirectional universal shift register The synchronous operation of the device is determined by the mode select inputs (S0, S1) In parallel load mode (S0 and S1 HIGH) data appearing on the D0 to D3 inputs, when S0 and S1 are HIGH, is transferred to the Q0 to Q3 outputs When S0 is HIGH and S1 is LOW data is entered

**SN74LS194A 4-Bit Bidirectional Universal Shift Register**

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**4-bit bidirectional universal shift register**

4-bit bidirectional universal shift register 74HC/HCT194 AC CHARACTERISTICS FOR 74HC GND = 0 V; tr =tf= 6 ns; CL = 50 pF SYMBOL PARAMETER Tamb (°C) UNIT TEST CONDITIONS 74HC VCC (V) WAVEFORMS +25 –40 to +85 –40 to +125 min typ max min max tPHL/ tPLH propagation delay CP to Qn 47 17 14 145 29 25 180 36 31 220 44 38 ns 20 45

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These 4-bit bidirectional universal shift registers feature parallel outputs, right-shift and left-shift serial (SR SER, SL SER) inputs, operating-mode-control (S0, S1) inputs, and a direct overriding clear (CLR) line The registers have four distinct modes of operation: • Inhibit clock (temporary data latch/do nothing)

**4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTERS**

4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTERS Author: Texas Instruments, Inc Subject: Data Sheet Keywords: SHIFT REGISTERS, sds075 Created Date: 12/4/1998 8:57:02 PM

**74F198 8-bit bidirectional universal shift register**

Philips Semiconductors Product specification 8-bit bidirectional universal shift register 74F198 October 2, 1987 2 853-0089 90746 FEATURES

•Buffered clock and control inputs •Shift right, shift left, and parallel load capability •Asynchronous Master Reset DESCRIPTION The 74F198 Bidirectional Universal Shift Register is designed to

### **8-bit bidirectional universal shift register**

Philips Semiconductors Product specification 8-bit bidirectional universal shift register 74F166 Feb 14, 1991 7 AC SETUP REQUIREMENTS LIMITS  $T_{amb} = +25^{\circ}\text{C}$   $T_{amb} = 0^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   $T_{amb} = -40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  SYMBOL PARAMETER TEST VCC = +50V VCC = +50V  $\pm$  10% VCC = +50V  $\pm$  10% UNIT CONDITION CL = 50pF, RL = 500 $\Omega$  CL = 50pF, RL = 500 $\Omega$  CL = 50pF, RL = 500 $\Omega$  MIN TYP MAX ...

### **MC74F194 4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER**

4-101 FAST AND LS TTL DATA 4-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTER The MC74F194 is a high-speed 4-bit bidirectional universal shift register As a high-speed multifunctional, sequential building block, it is useful in a wide variety of applications It may be used in serial-serial, shift left, shift ...

### **8-Bit Bidirectional Universal Shift Register with Parallel I/O**

8-Bit Bidirectional Universal Shift Register with Parallel I/O High-Performance Silicon-Gate CMOS ORDERING INFORMATION IN74HC299AN Plastic IN74HC299ADW SOIC TA =  $-55^{\circ}$  to  $125^{\circ}$  C for all packages The IN74HC299A is identical in pinout to the LS/ALS299 The

### **Shift registers - Griffith University**

61 4-Bit Bidirectional Universal Shift Registers (74HC194) The 74HC194 is a universal bi-directional shift register It has both serial and parallel input and output capability [Floyd] Figure 61:The 74HC194 4-bit bi-directional universal shift register Figure 62:The timing diagram of 74HC194