



Multi Function Gate 1-Element 8-IN CMOS 16-Pin PDIP Tube

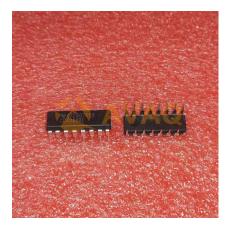
Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: DIP

Product Type: Logic ICs

RoHS: RoHS Compliant/Lead free

Lifecycle: Active



Images are for reference only

Inquiry

General Description

Key Features

Three-state output

Many logic functions available in one package

Standardized, symmetrical output characteristics

100% tested for quiescent current at 20 V

Maximum input current of 1 μA at 18 V (full package-temperature range), 100 nA at 18 V and 25 $^{\circ} C$

Noise margin (full package-temperature range) - 1 V at VDD = 5 V, 2 V at VDD = 10 V, 2.5 V at VDD = 15 V

5-V, 10-V, and 15-V parametric ratings

Meets all requirements of JEDEC Tentative Standard No. 13B, "Standard Specifications for Description of 'B' Series CMOS Devices"

Applications

Selection of up to 8 logic functions

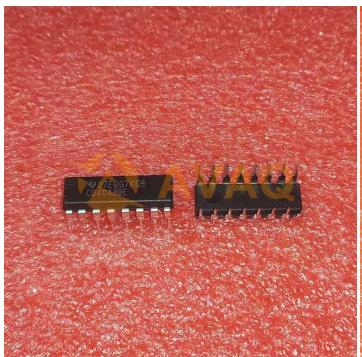
Digital control of logic

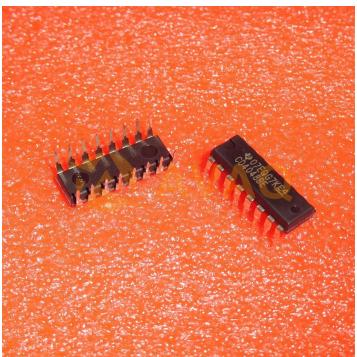
General-purpose gating logic - Decoding - Encoding

Description

CD4048B is an 8-input gate having four control inputs. Three binary control inputs - Ka, Kb, and Kc - provide the implementation of eight different logic functions. These functions are OR, NOR, AND, NAND, OR/AND, OR/NAND, AND/OR and AND/NOR.

A fourth control input, Kd, provides the user with a 3-state output. When control input Kd is high, the output is either a logic 1 or a logic 0 depending on the inner states. When control input Kd is low, the output is an open circuit. This feature enables the user to connect this device to a common bus line. In addition to the eight input lines, an EXPAND input is provided that permits the user to increase the number of inputs into a CD4048B (see Fig. 2). For example, two CD4048Bs can be cascaded to provide a 16-input multifunction gate. When the EXPAND input is not used, it should be connected to VSS. The CD4048B-series types are supplied in 16-lead hermetic dual-in-line ceramic packages (F3A suffix), 16-lead dual-in-line plastic packages (E suffix), 16-lead small-outline packages (M, M96, MT and NSR suffixes), and 16-lead thin shrink small-outline packages (PW and PWR suffixes).





Recommended For You

CD4070BE

Texas Instruments, Inc

DIP14

CD74HC08E

Texas Instruments, Inc

DIP

CD74HC75E

Texas Instruments, Inc

DIP

CD4081BE

Texas Instruments, Inc

DIP14

CD4069UBE

Texas Instruments, Inc

DIP14

CD74HCT138E

Texas Instruments, Inc

DIP16

CD74HC4075E

Texas Instruments, Inc

DIP

CD4504BE

Texas Instruments, Inc

DIP16

CD4001BE

Texas Instruments, Inc

DIP14

CD74HCT151E

Texas Instruments, Inc

DIP

CD4098BE

Texas Instruments, Inc

DIP

CD74ACT74E

Texas Instruments, Inc

DIP-14

CD4068BE

Texas Instruments, Inc

DIP

CD4512BE

Texas Instruments, Inc

DIP16

CD74HC04M

Texas Instruments, Inc

SOP14