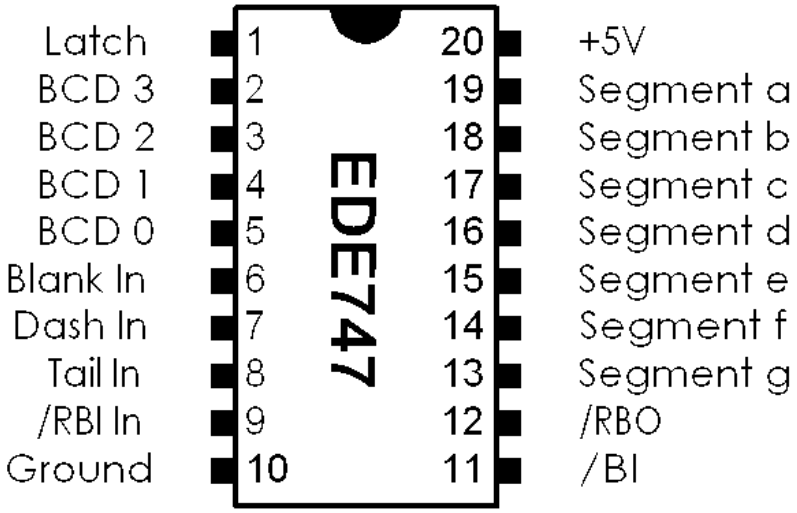
EDE747 Latching 7-Segment Driver

Common-Anode 7-Segment Display Driver



EDE747/**P**

EDE747/**S0**

0-70 ˚C – Standard Temp

EDE747-**I**
-40 to +85 ˚C – Industrial Temp

EDE747-**E**
-40 to +125 ˚C – Extended Temp

Features:

- ***Latched 4 bit binary (BCD) input***
- ***Drives 7-segment common-anode displays***
- ***0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F hexadecimal output***
- ***Blank input turns all segments off***
- ***/BI (blanking input) can be PWM controlled for varying intensity***
- ***/RBI & /RBO (ripple-blanking input & output) provides leading or trailing zero blanking functionality***
- ***'Tail' on lower leg of digit '9' may be turned on or off***
- ***'Dash' input displays '-' on display***
- ***TTL level inputs***

Description:

The EDE747 seven-segment Latching Decoder/Driver IC provides an ideal interface from binary BCD inputs to a common-anode seven-segment LED display. Four binary input bits along with a latch input provide display functionality from 0-9 and A-F for binary inputs 0000b to 1111b. Additional control pins provide leading & trailing zero blanking, intensity control, dash display ('-'), and optional display of the tail on digit 9. Applications include cash registers, counters, industrial equipment, error code displays, etc.

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PIN DEFINITIONS

Inputs:

Latch (Pin 1) ..... Active High Latch for Inputs 0-3
BCD3 (Pin 2) ..... Input 3 of binary input (MSB)
BCD2 (Pin 3) ..... Input 2 of binary input
BCD1 (Pin 4) ..... Input 1 of binary input
BCD0 (Pin 5) ..... Input 0 of binary input (LSB)
Blank In (Pin 6) ..... Blanks Display on next Latch
Dash In (Pin 7) ..... Displays Dash (-) on next Latch
Tail In (Pin 8) ..... High displays tail on 9, low does not
/**RBI** (Pin 9) ..... Ripple Blanking Input
/**BI** (Pin 11) ..... Blanking Input

Debounced Outputs:

Segment a (Pin 19) ..... LED Segment 'a'
Segment b (Pin 18) ..... LED Segment 'b'
Segment c (Pin 17) ..... LED Segment 'c'
Segment d (Pin 16) ..... LED Segment 'd'
Segment e (Pin 15) ..... LED Segment 'e'
Segment f (Pin 14) ..... LED Segment 'f'
Segment g (Pin 13) ..... LED Segment 'g'
/**RBO** (Pin 12) ..... Ripple Blanking Output

Power:

+5V (Pin 20) ..... Connect to +5V DC
GND (Pin 10) ..... Connect to 0V DC (Ground)

NOTE: The DIP are SOIC (surface mount) packages of the EDE747 have identical pinout and pincount. Please specify EDE747/P (DIP) or EDE747/SO (SOIC) when ordering.
Standard temperature range is 0 to 70˚C.