

Nama : Reza Aristo Rifandi

Kelas : D

NIM : L200180206

1. Carilah datasheet IC 7442! Cari schematic yang menunjukkan gerbang logika penyusun IC 7442!

- Datasheet IC 7442

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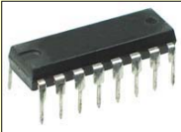
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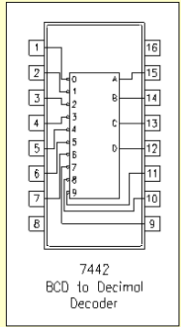
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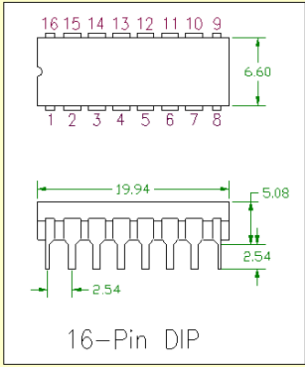
Pin Layout



Features

- ▶ Single 7-Segment to BCD Decoder
- ▶ Outputs Directly Interface to CMOS, NMOS and TTL
- ▶ Large Operating Voltage Range
- ▶ Wide Operating Conditions
- ▶ Not Recommended for New Designs

Dimensional Drawing



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16-Pin DIP

Pin Description

Pin Number	Description
1	Decimal 0 Output
2	Decimal 1 Output
3	Decimal 2 Output
4	Decimal 3 Output
5	Decimal 4 Output
6	Decimal 5 Output
7	Decimal 6 Output
8	Ground
9	Decimal 7 Output
10	Decimal 8 Output
11	Decimal 9 Output
12	BCD D Input
13	BCD C Input
14	BCD B Input
15	BCD A Input
16	Vcc - Positive Supply

Technical Data

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Technical Data

Absolute Maximum Ratings

Supply Voltage7V
Input Voltage5.5V
Operating Free Air Temperature0°C to +70°C
Storage Temperature Range-65°C to +150°C

Recommended Operating Conditions

Symbol	Parameter	Min	Typ	Max	Units
Vcc	Supply Voltage	4.75	5	5.25	V
Vih	HIGH Level Input Voltage	2			V
Vil	LOW Level Input Voltage			0.8	V
Ioh	HIGH Level Output Current			-0.4	mA
Iol	LOW Level Output Current			16	mA
Ta	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Units
Vi	Input Clamp Voltage	Vcc=Min Ii=-12mA			-1.5	V
Voh	HIGH Level Output Voltage	Vcc=Min Ioh=MAX Vil=MAX	2.4	3.4		V
Vol	LOW Level Output Voltage	Vcc=Min Iol=MAX Vih=MAX		0.2	0.4	V
Ii	Input Current@MAX Input Voltage	Vcc=Max Vi=5.5V			1	mA
Iih	HIGH Level Input Current	Vcc=Max Vi=2.4V			40	µA
Iil	LOW Level Input Current	Vcc=Max Vi=0.4V			-1.6	mA

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Ta	Free Air Operating Temperature	0	70	°C
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Electrical Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Units
Vi	Input Clamp Voltage	Vcc=Min Ii=-12mA			-1.5	V
Voh	HIGH Level Output Voltage	Vcc=Min Ioh=MAX Vil=MAX	2.4	3.4		V
Vol	LOW Level Output Voltage	Vcc=Min Iol=MAX Vil=MAX		0.2	0.4	V
Ii	Input Current@MAX Input Voltage	Vcc=Max Vi=5.5V			1	mA
Iih	HIGH Level Input Current	Vcc=Max Vi=2.4V			40	μA
Iil	LOW Level Input Current	Vcc=Max Vi=0.4V			-1.6	mA
Ios	Short Circuit Output Current	Vcc=Max	-18		-55	mA
Icch	Supply Current with Outputs HIGH	Vcc=Max		4	8	mA
Iccl	Supply Current with Outputs LOW	Vcc=Max		12	22	mA

Switching Characteristics at Vcc=5V, Ta=25°C

Symbol	Parameter	Conditions	Min	Typ	Max	Units
tplh	Propagation Delay Time LOW-to-HIGH Level Output	CI=15pF RI=400R			22	nS
tphl	Propagation Delay Time HIGH-to-LOW Level Output	CI=15pF RI=400R			15	nS

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