Impellimax

Ultra Compact Drivers

Ultra Compact Inverting, Noninverting, and Toggling Drivers

DESCRIPTION

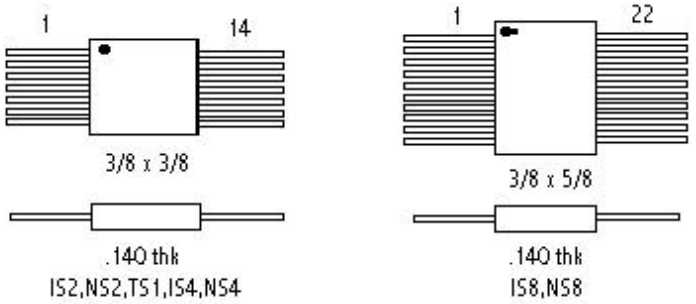
Moderate speed drivers designed for applications were space is at a premium, they are also suitable for use anywhere a simple, small driver is desired.

Three logic types are offered: Inverting, Noninverting, and Toggle. All drivers contain internal .01 µF capacitors to provide bypassing on both supplies.

Low internal dissipation has been designed in to keep thermal requirements simple. These drivers are fully TTL compatible and unconditionally stable with a negative supply range of from 0V to -12V ("A" voltage code).

See Note #SD101 for other microminiature PIN driver styles and options.

OUTLINES



Consult factory for alternative styles

FEATURES

- Small Size, High Density
- Very Low Quiescent Supply Current
- Moderate Speed - 25 nsec Typical Delay
- Simple-to-Integrate Pinouts
- Each Input is One LSTTL Load
- Output Testpoints on IS2, NS2, & TS1

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Pos. Bias Voltage	V +	4.5	5.0	5.5	V .
Neg. Bias Voltage	V -	0	-5	-16	V .
Switching Speed	T sw	--	25	60	nsec .
Pos. Supply (no lead) per Chan.	Iq+	--	2	5	mA .
Neg Supply (no lead) per Chan.	Iq-	--	2	5	mA .
TTL Input Current	I_{TTLO}	--	0.5	0.8	mA .
TTL input Current	I_{TTL1}	--	0.0	40	µA

PIN CONNECTIONS

PIN	IS2,NS2	TS1	IS4,NS4	IS8,NS8
1	VEE	VEE	+5v	+5v
2	Out 1	InvOut	IN1	IN1
3	IN1	Gnd	Out 1	Out 1
4	Gnd	IN	IN2	IN2
5	IN2	NC	Out 2	Out 2
6	Out 2	NinvOut	NC	IN3
7	+5v	+5v	Gnd	Out 3
8	Out 2	NinvOut	Gnd	IN4
9	NC	NC	NC	Out 4
10	TP 2	N.I.TP	IN3	NC
11	NC	NC	Out 3	Gnd
12	TP 1	Inv.TP	IN3	Gnd
13	NC	NC	Out 4	NC
14	NC	Inv Out	VEE	IN5
15	NC	NC	NC	Out 5
16	NC	NC	NC	IN6
17	NC	NC	NC	Out 6
18	NC	NC	NC	IN7
19	NC	NC	NC	Out 7
20	NC	NC	NC	IN8
21	NC	NC	NC	Out 8
22	NC	NC	NC	VEE

Versions with fewer channels are available.
Delete unused pins.
Redundantly labeled pins are internally connected.

OUTPUT CURRENTS

The following nominal positive output currents are available:
5, 10, 20, 25, 30, 40 and 50 mA
Negative output current varies with negative supply voltage.

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