

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).

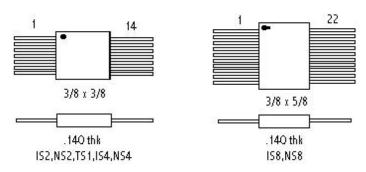
See Note #SD101 for other microminiature PIN driver styles and options.

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	٧.
Neg. Bias					
<u>Voltage</u>	V -	0	-5	-16	٧.
Switching					
Speed	Tsw		25	60	nsec .
Pos. Supply					
(no lead)	lq+				
per Chan.	-		2	5	mA .
Neg Supply					
(no lead)	lq-				
per Chan.			2	5	mA .
TTL Input	I _{TTLO}				
Current			0.5	0.8	mA .
TTL input	I _{TTL1}				
Current			0.0	40	μΑ

OUTLINES



Consult factory for alternative styles

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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