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Fairchild Semiconductor DM74AS1034AM

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SEMICONDUCTOR

DM74AS1034A Hex Non-Inverting Driver

General Description

These devices contain six independent drivers, each of which performs the logic Y = A function. The DM74AS1034A is a driver version of the DM74AS34. Each driver has increased output drive capability to allow the driving of high capacitive loads.

October 1986 Revised February 2000

DM74AS1034A Hex Non-Inverting Driver

Features

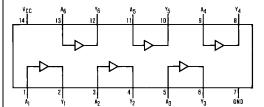
- Switching specifications at 50 pF
- Switching specifications guaranteed over full temperature and V_{CC} range
- Advanced oxide-isolated, ion-implanted Schottky TTL process

Ordering Code:

Order Number	Package Number	Package Description			
DM74AS1034AM	M14A	14-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150 Narrow			
DM74AS1034AN	N14A	14-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300 Wide			
Devices also available in Tape and Reel. Specify by appending the suffix letter "X" to the ordering code.					

Connection Diagram

Function Table



A = Y Input Output A Y L L H H

L = LOW Logic Level H = HIGH Logic Level



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Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Operating Free Air Temperature Range	$0^{\circ}C$ to $+70^{\circ}C$
Storage Temperature Range	$-65^{\circ}C$ to $+150^{\circ}C$
Typical θ_{JA}	
N Package	76.0°C/W
M Package	106.0°C/W

Note 1: The "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Recommended Operating Conditions

Symbol	Parameter	Min	Nom	Max	Units
V _{CC}	Supply Voltage	4.5	5	5.5	V
V _{IH}	HIGH Level Input Voltage	2			V
V _{IL}	LOW Level Input Voltage			0.8	V
I _{OH}	HIGH Level Output Current			-48	mA
I _{OL}	LOW Level Output Current			48	mA
T _A	Free Air Operating Temperature	0		70	°C

Electrical Characteristics

over recommended operating free air temperature range. All typical values are measured at $V_{CC} = 5V$, $T_A = 25^{\circ}C$.

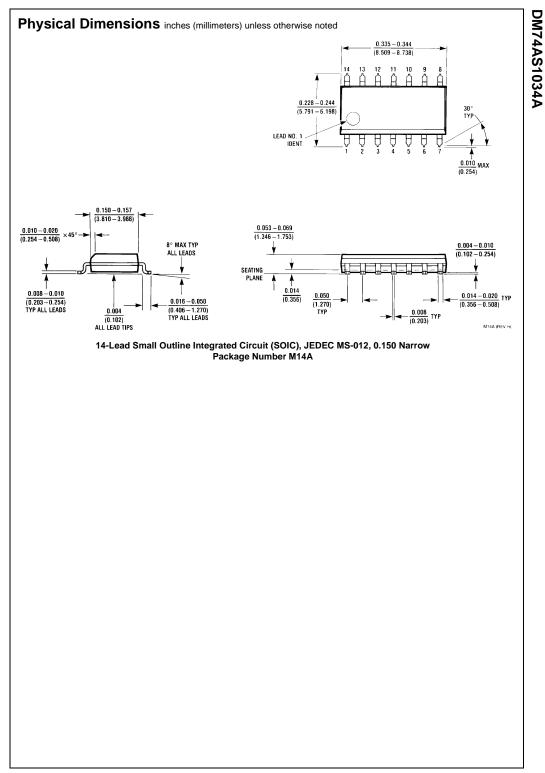
Symbol	Parameter	Conditio	ons	Min	Тур	Max	Units
V _{IK}	Input Clamp Voltage	$V_{CC} = 4.5V, I_I = -18 \text{ mA}$				-1.2	V
V _{OH}	HIGH Level	$I_{OH} = -2 \text{ mA}, V_{CC} = 4.5 \text{V to}$	5.5V	V _{CC} – 2			V
	Output Voltage	$I_{OH} = -3$ mA, $V_{CC} = 4.5V$		2.4	3.2		V
		$I_{OH} = Max, V_{CC} = 4.5V$		2			
V _{OL}	LOW Level	$V_{CC} = 4.5V$			0.35	0.5	v
	Output Voltage	I _{OL} = Max		0.55	0.5	v	
I _I	Input Current @	$\gamma = E E \gamma \gamma \gamma = Z \gamma \gamma$				0.1	mA
	Max Input Voltage	v _{CC} = 5.5v, v _{IH} = 7v	$V_{CC} = 5.5V, V_{IH} = 7V$			0.1	INA
I _{IH}	HIGH Level Input Current	$V_{CC} = 5.5 V, V_{IH} = 2.7 V$				20	μA
IIL	LOW Level Input Current	$V_{CC} = 5.5 V, V_{IL} = 0.4 V$				-0.5	mA
I _O	Output Drive Current	$V_{CC} = 5.5 V, V_{O} = 2.25 V$		-50	-135	-200	mA
I _{CC}	Supply Current	V _{CC} = 5.5V	Outputs HIGH		9	15	mA
			Outputs LOW		21	35	mA

Switching Characteristics

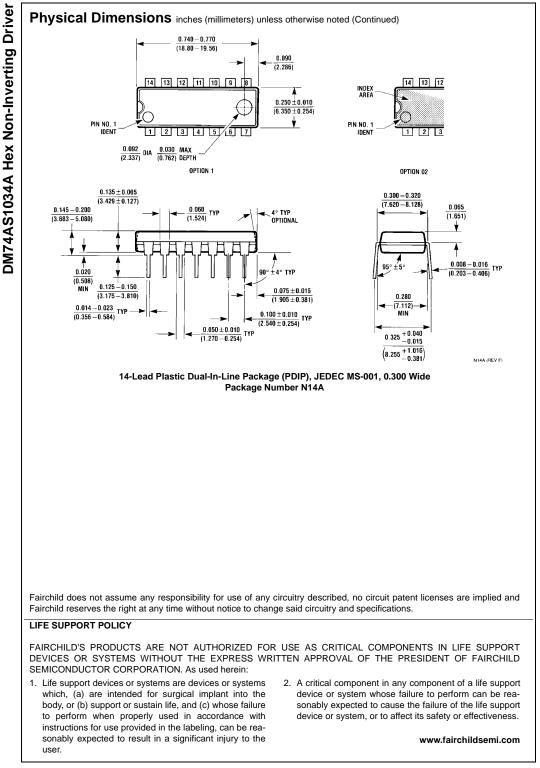
over recommended operating free air temperature range							
Symbol	Parameter	Conditions	Min	Max	Units		
t _{PLH}	Propagation Delay Time LOW-to-HIGH Level Output	$V_{CC} = 4.5V$ to 5.5V R _L = 500 Ω	1	6	ns		
t _{PHL}	Propagation Delay Time HIGH-to-LOW Level Output	C _L = 50 pF	1	6	ns		

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