

Excellent Integrated System Limited

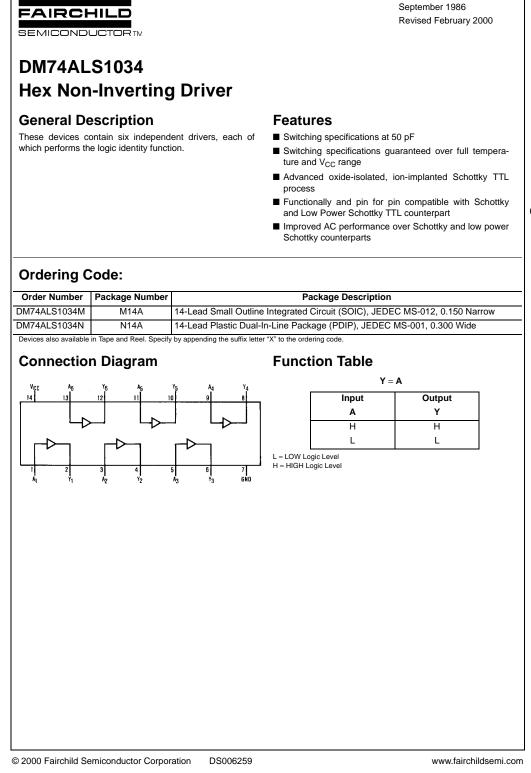
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Fairchild Semiconductor DM74ALS1034N

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>







Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Operating Free Air Temperature Range	0°C to +70°C
Storage Temperature Range	$-65^{\circ}C$ to $+150^{\circ}C$
Typical θ _{JA}	
N Package	76.0°C/W
M Package	106.5°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
ОН	HIGH Level Output Current			-15	mA
OL	LOW Level Output Current			24	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°C.

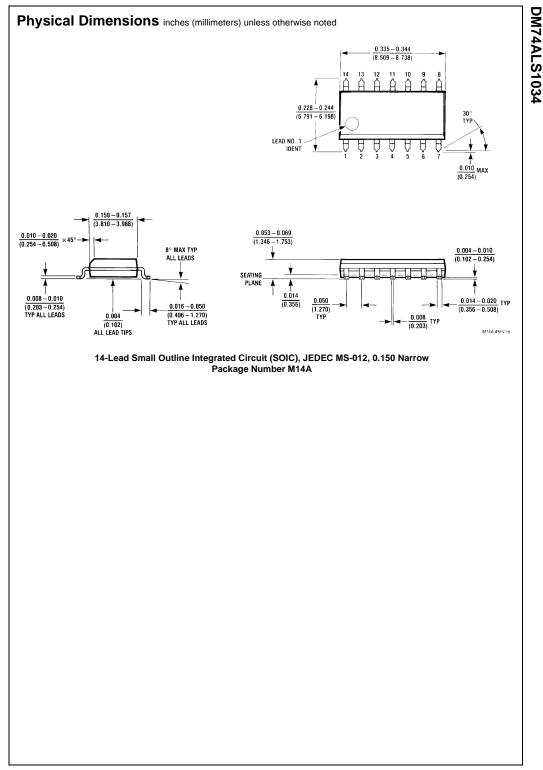
Symbol	Parameter	Condition	s	Min	Тур	Max	Units
VIK	Input Clamp Voltage	$V_{CC} = 4.5V, I_I = -18 \text{ mA}$				-1.2	V
V _{OH}	HIGH Level	$\label{eq:Interm} \begin{split} & I_{OH} = -0.4 \text{ mA}, \ V_{CC} = 4.5 \text{V to } 5.5 \text{V} \\ \hline & I_{OH} = \text{Max}, \ V_{CC} = 4.5 \text{V} \\ \hline & I_{OH} = -3 \text{ mA}, \ V_{CC} = 4.5 \text{V} \end{split}$		V _{CC} – 2			V
	Output Voltage			2			V
				2.4			1
V _{OL}	LOW Level	V _{CC} = 4.5V	I _{OL} = 12 mA		0.25	0.4	V
	Output Voltage		$I_{OL} = 24 \text{ mA}$		0.35	0.5	V
I _I	Input Current @ Maximum Input Voltage	$V_{CC} = 5.5V, V_I = 7V$	•			0.1	mA
IIH	HIGH Level Input Current	$V_{CC} = 5.5V, V_I = 2.7V$				20	μA
I _{IL}	LOW Level Input Current	$V_{CC} = 5.5V, V_I = 0.4V$				-0.1	mA
I _O	Output Drive Current	$V_{CC} = 5.5V, V_{O} = 2.25V$		-30		-112	mA
I _{CC}	Supply Current	V _{CC} = 5.5V	Outputs HIGH		3	6	mA
			Outputs LOW		8	14	mA

Switching Characteristics

Symbol	nded operating free air temperature range. Parameter	Conditions	Min	Мах	Units
Symbol	Falameter	Conditions	IVIIII	IVIAA	Units
t _{PLH}	Propagation Delay Time	V _{CC} = 4.5V to 5.5V		_	
	LOW-to-HIGH Level Output	$R_1 = 500\Omega$	1	8	ns
t _{PHL}	Propagation Delay Time	C _L = 50 pF		8	
	HIGH-to-LOW Level Output		1		ns

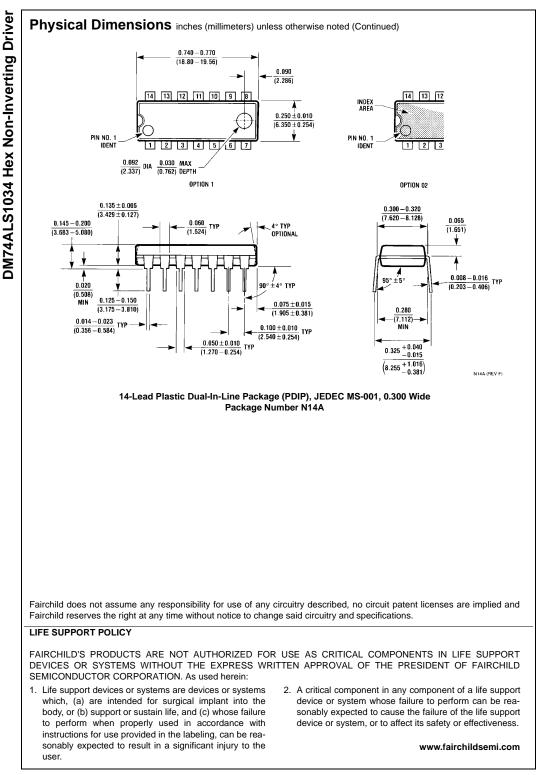
www.fairchildsemi.com





www.fairchildsemi.com





www.fairchildsemi.com