LC74HC08M



T-43-21

CMOS High-Speed Standard Logic LC74HC Series

Quad 2-Input AND Gate

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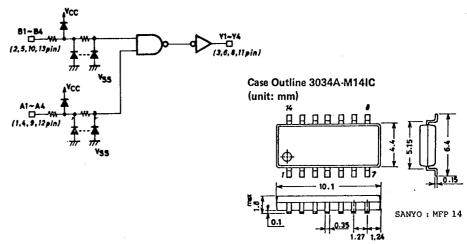
Features

- The LC74HC08M consists of 4 identical 2-input AND gates.
- Uses CMOS silicon gate process technology to achieve operating speeds similar to LS·TTL (74LS08) with the low power dissipation and high noise margin of standard CMOS ICs.
- · Has buffered outputs, improving the output transition characteristics.
- All inputs and outputs are protected from damage.
- The LC74HC08M is functionally as well as pin-out compatible with the standard 54LS/74LS TTL logic family.

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Absolute Maximum Ratings/Ta=25±2°C, Vss=0V				unit
Maximum Supply Voltage	VCC max	V _{SS} -0.5 to V _{SS} +7.0		V
Maximum Input Voltage	VIN max	VSS-0.5 to VCC+0.5		V
Maximum Output Voltage	VouT max	VSS-0.5 to VCC+0.5		٧
Maximum Output Current	IOUT	Per output	±25	mΑ
Current Dissipation	ICC/IGnd		±50	mΑ
Clamp Diode Current	lk	Per input pin	±20	mΑ
		(Input protector		
Allowable Power Dissipation	Pd max	Per package, Ta≤85°C	150	mW
Storage Temperature	Tstg	-65 to +150		°c
Lead Temperature and Time	Tsol	t=10sec	260	°C
Allowable Operating Conditions/VSS=0V				unit
Supply Voltage	Vcc		2.0 to 6.0	V
Input Voltage	VIN		0 to VCC	V
Output Voltage	Vout		0 to VCC	٧
Operating Temperature	Topg	-	-40 to +85	°c
Input Rise/Fall Time	tr, tf		0 to 500	ns

Equivalent Circuit and Logic Diagram (1/4 LC74HC08M)



For details, refer to the description of the LC74HC08.

5306KI/4106KI, TS JII No. 2140-1/3

