Hex Buffer with Enable

The MC10H188 is a high–speed Hex Buffer with a common Enable input. When Enable is in the high–state, all outputs are in the low–state. When Enable is in the low–state, the outputs take the same state as the inputs.

This MECL 10H part is a functional/pinout duplication of the standard MECL 10K family part, with 100% improvement in propagation delay and no increase in power–supply current.

- Propagation Delay, 1.3 ns Typical Data-to-Output
- Power Dissipation 180 mW Typ/Pkg (No Load)
- Improved Noise Margin 150 mV (Over Operating Voltage and Temperature Range)
- Voltage Compensated
- MECL 10K–Compatible

MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit	
Power Supply ($V_{CC} = 0$)	VEE	-8.0 to 0	Vdc	
Input Voltage ($V_{CC} = 0$)	VI	0 to V _{EE}	Vdc	
Output Current — Continuous — Surge	lout	50 50 100	mA	
Operating Temperature Range	Т _А	0 to +75	°C	
Storage Temperature Range — Plastic — Ceramic	T _{stg}	–55 to +150 –55 to +165	°C ℃	

ELECTRICAL CHARACTERISTICS (V_{EE} = -5.2 V ±5%) (See Note)

		0 °		25 °		75°		
Characteristic	Symbol	Min	Max	Min	Max	Min	Max	Unit
Power Supply Current	ΙE	—	46	—	42	—	46	mA
Input Current High	linH	—	495	—	310	-	310	μA
Input Current Low	l _{inL}	0.5	—	0.5	-	0.3	14	μA
High Output Voltage	VOH	-1.02	-0.84	-0.98	-0.81	-0.92	-0.735	Vdc
Low Output Voltage	VOL	-1.95	-1.63	-1.95	-1.63	-1.95	-1.60	Vdc
High Input Voltage	VIH	-1.17	-0.84	-1.13	-0.81	-1.07	-0.735	Vdc
Low Input Voltage	VIL	-1.95	-1.48	-1.95	-1.48	-1.95	-1.45	Vdc

AC PARAMETERS

Propagation Delay Enable Data	^t pd	0.7 0.7	2.2 1.9	0.7 0.7	2.2 1.9	0.7 0.7	2.2 1.9	ns
Rise Time	t _r	0.7	2.4	0.7	2.4	0.7	2.4	ns
Fall Time	t _f	0.7	2.4	0.7	2.4	0.7	2.4	ns

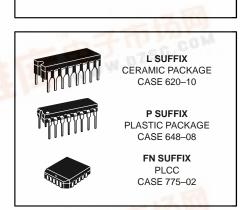
NOTE:

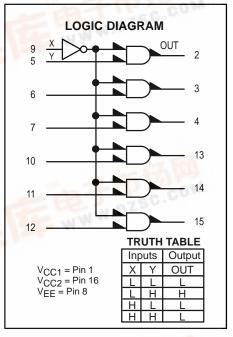
Each MECL 10H series circuit has been designed to meet the dc specifications shown in the test table, after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and transverse air flow greater than 500 lfpm is maintained. Outputs are terminated through a 50–ohm resistor to –2.0 volts.



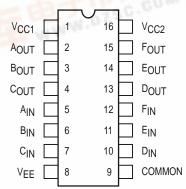
MC10H188

捷多邦,专业PCB打样工厂,24小时加急出货





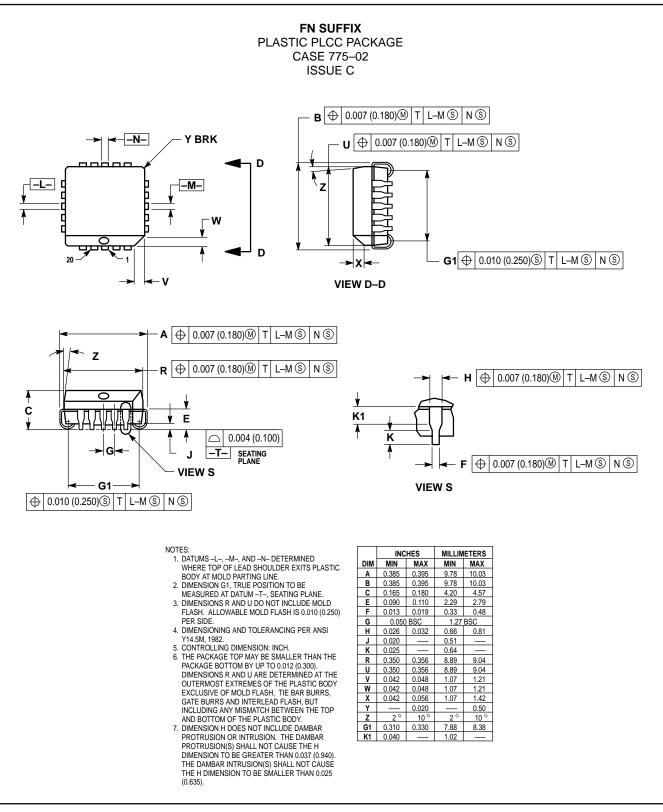




Pin assignment is for Dual–in–Line Package. For PLCC pin assignment, see the Pin Conversion Tables on page 6–11 of the Motorola MECL Data Book (DL122/D).

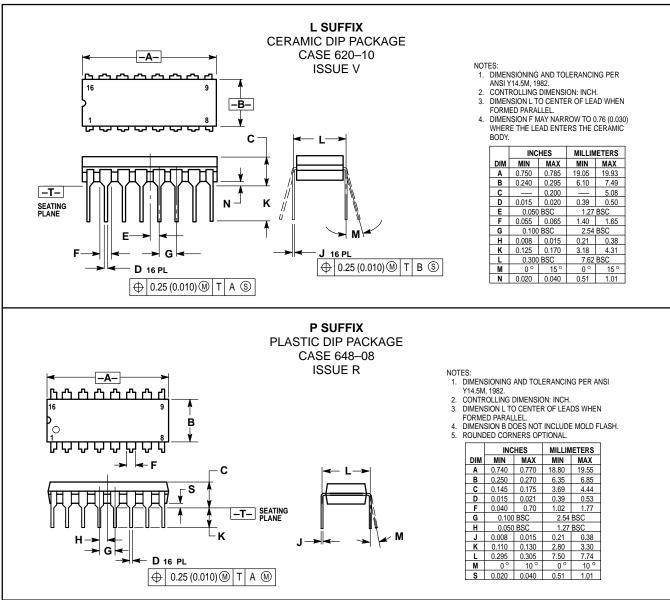


OUTLINE DIMENSIONS



MC10H188

OUTLINE DIMENSIONS



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