21000100011117NG"供应商

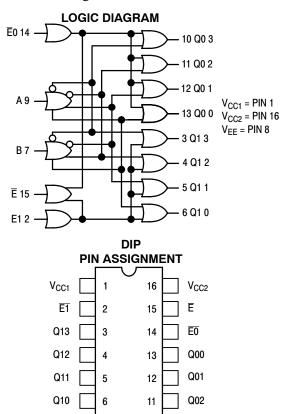
Dual Binary to 1-4 Decoder (Low)

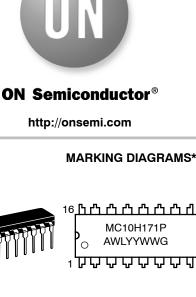
Description

The MC10H171 is a binary coded 2 line to dual 4 line decoder with selected outputs low. With either $\overline{E}0$ or $\overline{E}1$ high, the corresponding selected 4 outputs are high. The common enable \overline{E} , when high, forces all outputs high.

Features

- Propagation Delay, 2 ns Typical
- Power Dissipation 325 mW Typical (same as MECL 10K[™])
- Improved Noise Margin 150 mV (over operating voltage and temperature range)
- Voltage Compensated
- MECL 10K Compatible
- Pb-Free Packages are Available*



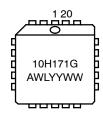


PDIP-16 P SUFFIX CASE 648



PLLC-20

FN SUFFIX CASE 775



А	= Assembly Location
WL	= Wafer Lot
YY	= Year
WW	= Work Week
G	= Pb-Free Package

*For additional marking information, refer to Application Note AND8002/D.

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 3 of this data sheet.

Pin assignment is for Dual-in-Line Package. For PLCC pin assignment, see the Pin Conversion Tables on page 18 of the ON Semiconductor MECL Data Book (DL122/D).

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9

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

Q03

А

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В

 V_{EE}

7

8

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Symbol	Characteristic	Rating	Unit
V_{EE}	Power Supply (V _{CC} = 0)	-8 to 0	Vdc
VI	Input Voltage (V _{CC} = 0)	0 to V _{EE}	Vdc
l _{out}	Output Current – Continuous – Surge	50 100	mA
T _A	Operating Temperature Range	0 to +75	°C
T _{stg}	Storage Temperature Range – Plastic – Ceramic	–55 to +150 –55 to +165	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

		0 °		25 °		75 °		
Symbol	Characteristic	Min	Max	Min	Max	Min	Мах	Unit
Ι _Ε	Power Supply Current	-	85	-	77	-	85	mA
I _{inH}	Input Current High	-	425	-	265	-	265	μΑ
I _{inL}	Input Current Low	0.5	-	0.5	-	0.3	-	μΑ
V _{OH}	High Output Voltage	-1.02	-0.84	-0.98	-0.81	-0.92	-0.735	Vdc
V _{OL}	Low Output Voltage	-1.95	-1.63	-1.95	-1.63	-1.95	-1.60	Vdc
V _{IH}	High Input Voltage	-1.17	-0.84	-1.13	-0.81	-1.07	-0.735	Vdc
VIL	Low Input Voltage	-1.95	-1.48	-1.95	-1.48	-1.95	-1.45	Vdc

1. 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 linear fpm is maintained. Outputs are terminated through a 50 Ω resistor to −2.0 V.

Table 3. AC PARAMETERS

		0	0 ° 25 °		5°	75 °		
Symbol	Characteristic	Min	Max	Min	Max	Min	Max	Unit
t _{pd}	Propagation Delay Data Select	0.5 0.5	2.0 2.6	0.5 0.5	2.1 2.7	0.5 0.5	2.2 2.8	ns
t _r	Rise Time	0.5	1.7	0.5	1.8	0.5	1.9	ns
t _f	Fall Time	0.5	1.7	0.5	1.8	0.5	1.9	ns

NOTE: Device will meet the specifications after thermal equilibrium has been established when mounted in a test socket or printed circuit board with maintained transverse airflow greater than 500 lfpm. Electrical parameters are guaranteed only over the declared operating temperature range. Functional operation of the device exceeding these conditions is not implied. Device specification limit values are applied individually under normal operating conditions and not valid simultaneously.

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l	Enable Inputs		Inputs		Outputs							
Ē	Ē0	E1	Α	В	Q10	Q11	Q12	Q13	Q00	Q01	Q02	Q03
L	L	L	L	L	L	Н	н	Н	L	Н	Н	Н
L	L	L	L	Н	н	L	н	Н	н	L	н	Н
L	L	L	н	L	н	н	L	н	н	н	L	н
L	L	L	Н	Н	н	н	н	L	Н	Н	н	L
L	L	н	L	L	Н	н	н	Н	L	Н	Н	н
L	Н	L	L	L	L	н	н	Н	Н	Н	н	н
н	Х	Х	Х	Х	Н	Н	Н	Н	Н	Н	Н	н

ORDERING INFORMATION

Device	Package	Shipping [†]
MC10H171FN	PLLC-20	46 Units / Rail
MC10H171FNG	PLLC-20 (Pb-Free)	46 Units / Rail
MC10H171P	PDIP-16	25 Unit / Rail
MC10H171PG	PDIP-16 (Pb-Free)	25 Unit / Rail

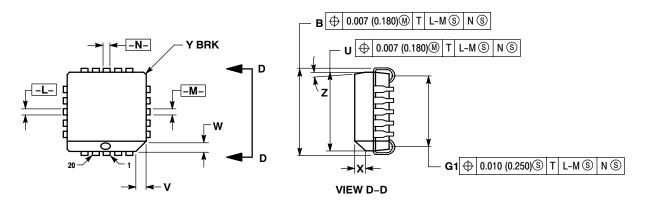
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

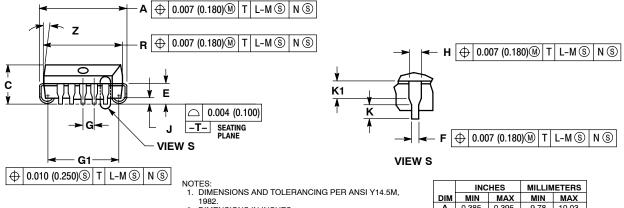
查询"MC10H171FNG"供应商

PACKAGE DIMENSIONS



ISSUE E





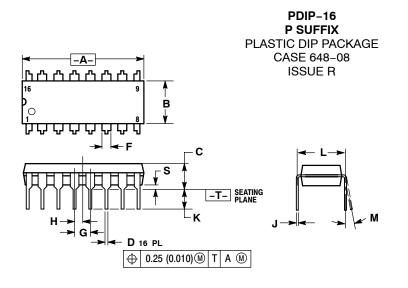
- DIMENSIONS IN INCHES.
 DIMENSIONS IN INCHES.
 DATUMS -L-, -M-, AND -N- DETERMINED WHERE TOP OF LEAD SHOULDER EXITS PLASTIC BODY AT MOLD PARTING LINE.

- PARTING LINE.
 DIMENSION G1, TRUE POSITION TO BE MEASURED AT DATUM -T-, SEATING PLANE.
 DIMENSIONS R AND U DO NOT INCLUDE MOLD FLASH. ALLOWABLE MOLD FLASH IS 0.010 (0.250) PER SIDE.
 DIMENSIONS IN THE PACKAGE TOP MAY BE SMALLER THAN THE PACKAGE BOTTOM BY UP TO 0.012 (0.300). DIMENSIONS R AND U ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY EXCLUSIVE OF MOLD FLASH, TIE BAR BURRS, GATE BURRS AND INTERLEAD FLASH, BUT INCLUDING ANY MISMATCH BETWEEN THE TOP AND BOTTOM OF THE PLASTIC BODY. PLASTIC BODY.
- 7. DIMENSION H DOES NOT INCLUDE DAMBAR DIMENSION H DOES NOT INCLUDE DAMBAR PROTRUSION OR INTRUSION. THE DAMBAR PROTRUSION(S) SHALL NOT CAUSE THE H DIMENSION TO BE GREATER THAN 0.037 (0.940). THE DAMBAR INTRUSION(S) SHALL NOT CAUSE THE H DIMENSION TO BE SMALLER THAN 0.025 (0.635).

	INC	HES	MILLIN	IETERS
DIM	MIN	MAX	MIN	MAX
Α	0.385	0.395	9.78	10.03
в	0.385	0.395	9.78	10.03
С	0.165	0.180	4.20	4.57
E	0.090	0.110	2.29	2.79
F	0.013	0.019	0.33	0.48
G	0.050	BSC	1.27	BSC
н	0.026	0.032	0.66	0.81
J	0.020		0.51	
к	0.025		0.64	
R	0.350	0.356	8.89	9.04
U	0.350	0.356	8.89	9.04
v	0.042	0.048	1.07	1.21
w	0.042	0.048	1.07	1.21
Х	0.042	0.056	1.07	1.42
Y		0.020		0.50
Z	2 °	10 °	2 °	10 °
G1	0.310	0.330	7.88	8.38
K1	0.040		1.02	

PACKAGE DIMENSIONS

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NOTES:

DIMENSIONING AND TOLERANCING PER ANSI Y14 5M 1982

CONTROLLING DIMENSION: INCH.

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DIMENSION LTO CENTER OF LEADS WHEN FORMED PARALLEL. DIMENSION B DOES NOT INCLUDE MOLD FLASH. ROUNDED CORNERS OPTIONAL.

		INC	HES	MILLIMETERS		
DI	N	MIN	MAX	MIN	MAX	
Α		0.740	0.770	18.80	19.55	
В		0.250	0.270	6.35	6.85	
C		0.145	0.175	3.69	4.44	
D		0.015	0.021	0.39	0.53	
F		0.040	0.70	1.02	1.77	
G		0.100	BSC	2.54 BSC		
Н		0.050	BSC	1.27 BSC		
J		0.008	0.015	0.21	0.38	
K		0.110	0.130	2.80	3.30	
L		0.295	0.305	7.50	7.74	
M		0 °	10 °	0 °	10 °	
S		0.020	0.040	0.51	1.01	

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