Quad 2-Input AND Gate

V

High−Performance Silicon−Gate CMOS

MC74AC08, MC74ACT08

Features

- Outputs Source/Sink 24 mA
- ′ACT08 Has TTL Compatible Inputs
- −Q Suffix for Automotive and Other Applications Requiring Unique

1 Site and3Control4 Change5Requirements; AEC6Q1007 2

GND

CC

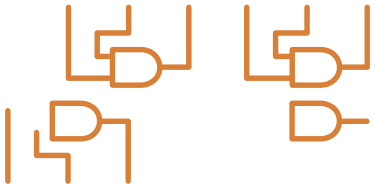


Figure .057c.68WRinout: 4q1 Tf1 0 0 9 0 71.3645 ND

DC CHARACTERISTICS

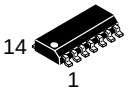
Symbol	Parameter	Conditions	V_{CC} (V)	74ACT T_A = +25°C Typ	74ACT T_A = −40°C to +85°C Guaranteed Limits		Unit
V_{IH}	Minimum High Level Input Voltage	V_{OUT} = 0.1 V	4.5	1.5	2.0	2.0	V
		or V_{CC} − 0.1 V	5.5	1.5	2.0	2.0	
V_{IL}	Maximum Low Level Input Voltage	V_{OUT} = 0.1 V	4.5	1.5	0.8	0.8	V

ORDERING INFORMATION

Device	Marking	Package	Shipping†
MC74AC08DG	AC08	SOIC−14 (Pb−Free)	55 Units / Rail
MC74AC08DR2G	AC08	SOIC−14 (Pb−Free)	2500 / Tape & Reel
MC74AC08DR2G−Q*	AC08	SOIC−14 (Pb−Free)	2500 / Tape & Reel
MC74AC08DTR2G	AC 08	TSSOP−14 (Pb−Free)	2500 / Tape & Reel
MC74ACT08DG	ACT08	SOIC−14 (Pb−Free)	55 Units / Rail
MC74ACT08DR2G	ACT08	SOIC−14 (Pb−Free)	2500 / Tape & Reel
MC74ACT08DTR2G	ACT 08	TSSOP−14 (Pb−Free)	2500 / Tape & Reel

†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.

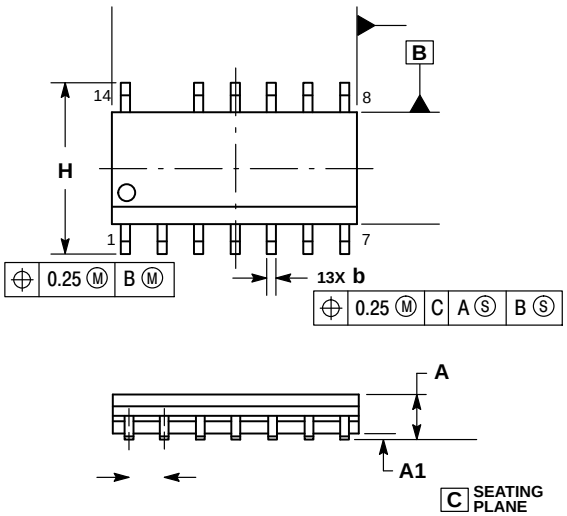
*−Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC−Q100 Qualified and PPAP Capable.



SCALE 1:1

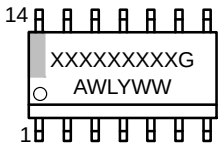
SOIC 14 NB
CASE 751A−03
ISSUE L

DATE 03 FEB 2016



NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.

GENERIC
MARKING DIAGRAM*



XXXXX = Specific Device Code
A = Assembly Location
WL = Wafer Lot
Y = Year
WW = Work Week
G = Pb−Free Package

STYLES ON PAGE 2

SOIC 14
CASE 751A−03
ISSUE L

DATE 03 FEB 2016

STYLE 7:
PIN 1. ANODE/CATHODE
2. COMMON ANODE
3. COMMON CATHODE
4. ANODE/CATHODE
5. ANODE/CATHODE