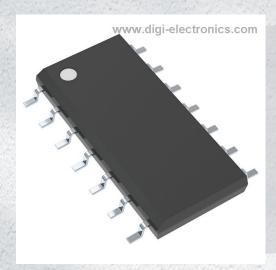


MC74ACT74D Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number MC74ACT74D-DG

Manufacturer onsemi

Manufacturer Product Number MC74ACT74D

Description IC FF D-TYPE DUAL 1BIT 14SOIC

Detailed Description Flip Flop 2 Element D-Type 1 Bit Positive Edge 14-S

OIC (0.154", 3.90mm Width)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC74ACT74D	onsemi
Series:	Product Status:
74ACT	Obsolete
Function:	Type:
Set(Preset) and Reset	D-Type
Output Type:	Number of Elements:
Complementary	2
Number of Bits per Element:	Clock Frequency:
1	210 MHz
Max Propagation Delay @ V, Max CL:	Trigger Type:
11ns @ 5V, 50pF	Positive Edge
Current - Output High, Low:	Voltage - Supply:
24mA, 24mA	4.5V ~ 5.5V
Current - Quiescent (Iq):	Input Capacitance:
4 μΑ	4.5 pF
Operating Temperature:	Mounting Type:
-40°C ~ 85°C (TA)	Surface Mount
Supplier Device Package:	Package / Case:
14-SOIC	14-SOIC (0.154", 3.90mm Width)
Base Product Number:	
74ACT74	

Environmental & Export classification

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



Dual D-Type Positive Edge-Triggered Flip-Flop

MC74AC74, MC74ACT74

The MC74AC74/74ACT74 is a dual D-type flip-flop with Asynchronous Clear and Set inputs and complementary (Q,\overline{Q}) outputs. Information at the input is transferred to the outputs on the positive edge of the clock pulse. Clock triggering occurs at a voltage level of the clock pulse and is not directly related to the transition time of the positive-going pulse. After the Clock Pulse input threshold voltage has been passed, the Data input is locked out and information present will not be transferred to the outputs until the next rising edge of the Clock Pulse input.

Asynchronous Inputs:

LOW input to \overline{S}_D (Set) sets Q to HIGH level

LOW input to \overline{C}_D (Clear) sets Q to LOW level

Clear and Set are independent of clock

Simultaneous LOW on \overline{C}_D and \overline{S}_D makes both Q and \overline{Q} HIGH

Features

- Outputs Source/Sink 24 mA
- 'ACT74 Has TTL Compatible Inputs
- These are Pb-Free Devices

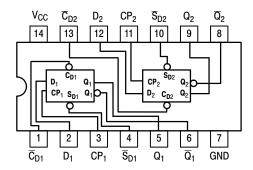


Figure 1. Pinout: 14-Lead Packages Conductors (Top View)

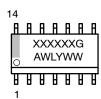
PIN ASSIGNMENT

PIN	FUNCTION
D ₁ , D ₂	Data Inputs
CP ₁ , CP ₂	Clock Pulse Inputs
$\overline{C}_{D1}, \overline{C}_{D2}$	Direct Clear Inputs
$\overline{S}_{D1}, \overline{S}_{D2}$	Direct Set Inputs
$\overline{Q}_1, \overline{Q}_1, Q_2, \overline{Q}_2$	Outputs

MARKING DIAGRAMS

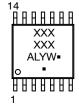


SOIC-14 D SUFFIX CASE 751A





TSSOP-14 DT SUFFIX CASE 948G



XXX = Specific Device Code
A = Assembly Location

WL or L = Wafer Lot Y = Year WW or W = Work Week G or ■ = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 7 of this data sheet.

1

TRUTH TABLE (Each Half)

	Inp	Out	outs		
<u></u> S _D	\overline{C}_{D}	СР	D	Q	Q
L	Н	Х	Х	Н	L
Н	L	X	Х	L	Н
L	L	X	Χ	Н	Н
Н	Н		Н	Н	L
Н	Н		L	L	Н
Н	Н	L	Х	Q_0	\overline{Q}_0

NOTE: H = HIGH Voltage Level

L = LOW Voltage Level

X = Immaterial;

 $\square = \text{LOW-to-HIGH Clock Transition}$ $Q_0(\overline{Q}_0) = \text{Previous } Q(\overline{Q}) \text{ before LOW-to-HIGH}$ Transition of Clock

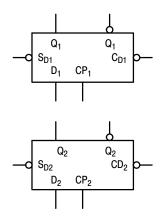
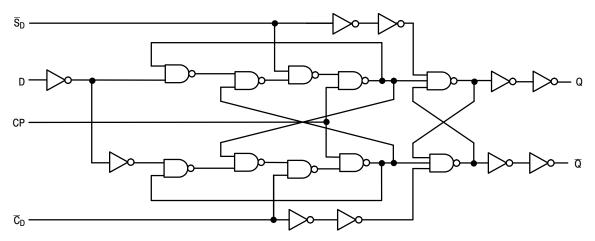


Figure 2. Logic Symbol



NOTE: This diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 3. Logic Diagram

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage	-0.5 to +6.5	V
VI	DC Input Voltage	$-0.5 \le V_{\text{I}} \le V_{\text{CC}} + 0.5$	V
Vo	DC Output Voltage (Note 1)	$-0.5 \le V_{O} \le V_{CC} + 0.5$	V
I _{IK}	DC Input Diode Current	±20	mA
I _{OK}	DC Output Diode Current	±50	mA
Io	DC Output Sink/Source Current	±50	mA
I _{CC}	DC Supply Current per Output Pin	±50	mA
I _{GND}	DC Ground Current per Output Pin	±50	mA
T _{STG}	Storage Temperature Range	- 65 to +150	°C
TL	Lead temperature, 1 mm from Case for 10 Seconds	260	°C
TJ	Junction temperature under Bias	+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2) SOIC TSSOP		°C/W
P _D	Power Dissipation in Still Air at 25°C SOIC TSSOP		mW
MSL	Moisture Sensitivity	Level 1	
F _R	Flammability Rating Oxygen Index: 30% – 35%	UL 94 V-0 @ 0.125 in	
V _{ESD}	ESD Withstand Voltage Human Body Model (Note 3) Charged Device Model (Note 4)		V
I _{Latch-Up}	Latch-Up Performance Above V _{CC} and Below GND at 85°C (Note 5)	±100	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

- 1. IO absolute maximum rating must be observed.
- The package thermal impedance is calculated in accordance with JESD51–7.
 Tested to EIA/JESD22–A114–A.
- 4. Tested to JESD22-C101-A.
- 5. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Тур	Max	Unit
V _{CC}	Supply Voltage	'AC	2.0	5.0	6.0	V
		'ACT	4.5	5.0	5.5	
V _{in} , V _{out}	DC Input Voltage, Output Voltage (Ref. to GND)		0	-	V _{CC}	V
t _r , t _f	Input Rise and Fall Time (Note) 'AC Devices except Schmitt Inputs	V _{CC} @ 3.0 V	-	150	-	
		V _{CC} @ 4.5 V	-	40	-	ns/V
		V _{CC} @ 5.5 V	-	25	-	
t _r , t _f	Input Rise and Fall Time (Note)	V _{CC} @ 4.5 V	-	10	-	ns/V
	'ACT Devices except Schmitt Inputs	V _{CC} @ 5.5 V	-	8.0	_	
T _A	Operating Ambient Temperature Range		-40	25	85	°C
I _{OH}	Output Current – High		-	-	-24	mA
I _{OL}	Output Current – Low		-	-	24	mA

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

1. V_{in} from 30% to 70% V_{CC}; see individual Data Sheets for devices that differ from the typical input rise and fall times.

2. V_{in} from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

DC CHARACTERISTICS

	Parameter		74	AC	74AC		
Symbol		V _{CC} (V)	T _A = +25°C		T _A = -40°C to +85°C	Unit	Conditions
			Тур	Guar	anteed Limits		
V _{IH}	Minimum High Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	2.1 3.15 3.85	2.1 3.15 3.85	V	V _{OUT} = 0.1 V or V _{CC} – 0.1 V
V _{IL}	Maximum Low Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	0.9 1.35 1.65	0.9 1.35 1.65	٧	V _{OUT} = 0.1 V or V _{CC} – 0.1 V
V _{OH}	Minimum High Level Output Voltage	3.0 4.5 5.5	2.99 4.49 5.49	2.9 4.4 5.4	2.9 4.4 5.4	V	I _{OUT} = -50 μA
		3.0 4.5 5.5	- - -	2.56 3.86 4.86	2.46 3.76 4.76	V	$^*V_{IN} = V_{IL} \text{ or } V_{IH}$ -12 mA I_{OH} -24 mA -24 mA
V _{OL}	Maximum Low Level Output Voltage	3.0 4.5 5.5	0.002 0.001 0.001	0.1 0.1 0.1	0.1 0.1 0.1	V	I _{OUT} = 50 μA
		3.0 4.5 5.5	- - -	0.36 0.36 0.36	0.44 0.44 0.44	٧	* V _{IN} = V _{IL} or V _{IH} 12 mA I _{OL} 24 mA 24 mA
I _{IN}	Maximum Input Leakage Current	5.5	_	±0.1	±1.0	μΑ	V _I = V _{CC} , GND
I _{OLD}	†Minimum Dynamic	5.5	-	-	75	mA	V _{OLD} = 1.65 V Max
I _{OHD}	Output Current	5.5	-	-	-75	mA	V _{OHD} = 3.85 V Min
Icc	Maximum Quiescent Supply Current	5.5	_	4.0	40	μΑ	V _{IN} = V _{CC} or GND

^{*}All outputs loaded; thresholds on input associated with output under test. †Maximum test duration 2.0 ms, one output loaded at a time.

NOTE: I $_{\rm IN}$ and I $_{\rm CC}$ @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V $_{\rm CC}$.

AC CHARACTERISTICS

Symbol	Parameter		74AC T _A = +25°C C _L = 50 pF			74	Unit	
		V _{CC} * (V)				T _A = -40°C to +85°C C _L = 50 pF		
			Min	Тур	Max	Min	Max	
f _{max}	Maximum Clock Frequency	3.3 5.0	100 140	125 160	-	95 125	-	MHz
t _{PLH}	Propagation Delay \overline{C}_{Dn} or \overline{S}_{Dn} to \overline{Q}_{n}	3.3 5.0	5.0 3.5	8.0 6.0	12.5 9.0	4.0 3.0	13.0 10.0	ns
t _{PHL}	Propagation Delay \overline{C}_{Dn} or \overline{S}_{Dn} to \overline{Q}_{n}	3.3 5.0	4.0 3.0	10.5 8.0	12.0 9.5	3.5 2.5	13.5 10.5	ns
t _{PLH}	Propagation Delay C_{Pn} to Q_n or \overline{Q}_n	3.3 5.0	4.5 3.5	8.0 6.0	13.5 10.0	4.0 3.0	16.0 10.5	ns
t _{PHL}	Propagation Delay C_{Pn} to Q_n or \overline{Q}_n	3.3 5.0	3.5 2.5	8.0 6.0	14.0 10.0	3.5 2.5	14.5 10.5	ns

^{*}Voltage Range 3.3 V is 3.3 V ± 0.3 V. Voltage Range 5.0 V is 5.0 V ± 0.5 V.

AC OPERATING REQUIREMENTS

Symbol				74AC	74AC	
	Parameter		T _A = +25°C C _L = 50 pF		T _A = -40°C to +85°C C _L = 50 pF	Unit
			Тур	Guarantee	d Minimum	
t _s	Set-up Time, HIGH or LOW D _n to CP _n	3.3 5.0	1.5 1.0	4.0 3.0	4.5 3.0	ns
t _h	Hold Time, HIGH or LOW D _n to CP _n	3.3 5.0	-2.0 -1.5	0.5 0.5	0.5 0.5	ns
t _w	C_{Pn} or \overline{C}_{Dn} or \overline{S}_{Dn} Pulse Width	3.3 5.0	3.0 2.5	5.5 4.5	7.0 5.0	ns
t _{rec}	Recovery Time \overline{C}_{Dn} or \overline{S}_{Dn} to CP	3.3 5.0	-2.5 -2.0	0 0	0 0	ns

^{*}Voltage Range 3.3 V is 3.3 V ± 0.3 V. Voltage Range 5.0 V is 5.0 V ± 0.5 V.

DC CHARACTERISTICS

			74	CT	74ACT		
Symbol	Parameter	V _{CC} (V)	T _A = +25°C		T _A = -40°C to +85°C	Unit	Conditions
			Тур	Guar	anteed Limits	1	
V _{IH}	Minimum High Level Input Voltage	4.5 5.5	1.5 1.5	2.0 2.0	2.0 2.0	V	V _{OUT} = 0.1 V or V _{CC} – 0.1 V
V _{IL}	Maximum Low Level Input Voltage	4.5 5.5	1.5 1.5	0.8 0.8	0.8 0.8	V	V _{OUT} = 0.1 V or V _{CC} – 0.1 V
V _{OH}	Minimum High Level Output Voltage	4.5 5.5	4.49 5.49	4.4 5.4	4.4 5.4	V	I _{OUT} = -50 μA
		4.5 5.5	- -	3.86 4.86	3.76 4.76	V	$*V_{IN} = V_{IL} \text{ or } V_{IH}$ -24 mA I_{OH} -24 mA
V _{OL}	Maximum Low Level Output Voltage	4.5 5.5	0.001 0.001	0.1 0.1	0.1 0.1	V	I _{OUT} = 50 μA
		4.5 5.5	- -	0.36 0.36	0.44 0.44	V	*V _{IN} = V _{IL} or V _{IH} 24 mA I _{OL} 24 mA
I _{IN}	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μΑ	V _I = V _{CC} , GND
ΔI_{CCT}	Additional Max. I _{CC} /Input	5.5	0.6	_	1.5	mA	V _I = V _{CC} - 2.1 V
I _{OLD}	†Minimum Dynamic	5.5	-	_	75	mA	V _{OLD} = 1.65 V Max
I _{OHD}	Output Current	5.5	-	_	-75	mA	V _{OHD} = 3.85 V Min
I _{CC}	Maximum Quiescent Supply Current	5.5	-	4.0	40	μΑ	V _{IN} = V _{CC} or GND

^{*}All outputs loaded; thresholds on input associated with output under test. †Maximum test duration 2.0 ms, one output loaded at a time.

AC CHARACTERISTICS

Symbol	Parameter		74ACT T _A = +25°C C _L = 50 pF			74₽	Unit	
		V _{CC} * (V)				T _A = -40°C to +85°C C _L = 50 pF		
			Min	Тур	Max	Min	Max	
f _{max}	Maximum Clock Frequency	5.0	145	210	-	125	1	MHz
t _{PLH}	Propagation Delay \overline{C}_{Dn} or \overline{S}_{Dn} to Q_n or \overline{Q}_n	5.0	3.0	5.5	9.5	2.5	10.5	ns
t _{PHL}	Propagation Delay \overline{C}_{Dn} or \overline{S}_{Dn} to \overline{Q}_{n}	5.0	3.0	6.0	10.0	3.0	11.5	ns
t _{PLH}	Propagation Delay C_{Pn} to Q_n or \overline{Q}_n	5.0	4.0	7.5	11.0	4.0	13.0	ns
t _{PHL}	Propagation Delay C_{Pn} to Q_n or \overline{Q}_n	5.0	3.5	6.0	10.0	3.0	11.5	ns

^{*}Voltage Range 5.0 V is 5.0 V \pm 0.5 V.

AC OPERATING REQUIREMENTS

Symbol	Parameter			74ACT	74ACT	
		V _{CC} * (V)	T _A = +25°C C _L = 50 pF		T _A = -40°C to +85°C C _L = 50 pF	Unit
			Тур	Guarantee	d Minimum	
t _s	Set-up Time, HIGH or LOW D _n to CP _n	5.0	1.0	3.0	3.5	ns
t _h	Hold Time, HIGH or LOW D _n to CP _n	5.0	-0.5	1.0	1.0	ns
t _w	C_{Pn} or \overline{C}_{Dn} or \overline{S}_{Dn} Pulse Width	5.0	3.0	5.0	6.0	ns
t _{rec}	Recovery Time \overline{C}_{Dn} or \overline{S}_{Dn} to CP	5.0	-2.5	0	0	ns

^{*}Voltage Range 5.0 V is 5.0 V \pm 0.5 V.

CAPACITANCE

Symbol	Parameter	Value Typ	Unit	Test Conditions
C _{IN}	Input Capacitance	4.5	pF	V _{CC} = 5.0 V
C _{PD}	Power Dissipation Capacitance	35	pF	V _{CC} = 5.0 V

ORDERING INFORMATION

Device	Marking	Package	Shipping [†]
MC74AC74DG	AC74	SOIC-14	55 Units/Rail
MC74AC74DR2G	AC74	SOIC-14	2500/Tape & Reel
MC74AC74DTR2G	AC 74	TSSOP-14	2500/Tape & Reel
MC74ACT74DG	ACT74	SOIC-14	55 Units/Rail
MC74ACT74DR2G	ACT74	SOIC-14	2500/Tape & Reel
MC74ACT74DTR2G	ACT 74	TSSOP-14	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.



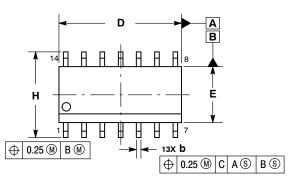
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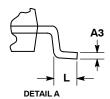
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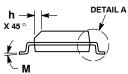


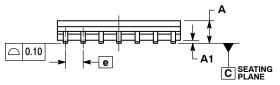
SOIC-14 NB CASE 751A-03 ISSUE L

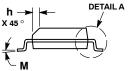
DATE 03 FEB 2016







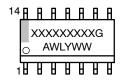




- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
 - ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT
- MAXIMUM MATERIAL CONDITION.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
- 5. MAXIMUM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

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	1.35	1.75	0.054	0.068
A1	0.10	0.25	0.004	0.010
АЗ	0.19	0.25	0.008	0.010
b	0.35	0.49	0.014	0.019
D	8.55	8.75	0.337	0.344
Е	3.80	4.00	0.150	0.157
е	1.27 BSC		0.050 BSC	
Н	5.80	6.20	0.228	0.244
h	0.25	0.50	0.010	0.019
Ĺ	0.40	1.25	0.016	0.049
М	0 °	7°	0 °	7°

GENERIC MARKING DIAGRAM*

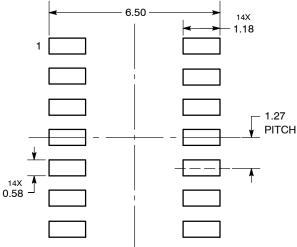


XXXXX = Specific Device Code Α = Assembly Location

WL = Wafer Lot Υ = Year WW = Work Week = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

STYLES ON PAGE 2

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

SOIC-14 CASE 751A-03 ISSUE L

DATE 03 FEB 2016

STYLE 1: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. NO CONNECTION 5. ANODE/CATHODE 6. NO CONNECTION 7. ANODE/CATHODE 8. ANODE/CATHODE 9. ANODE/CATHODE 10. NO CONNECTION 11. ANODE/CATHODE 12. ANODE/CATHODE 13. NO CONNECTION 14. COMMON ANODE	STYLE 2: CANCELLED	STYLE 3: PIN 1. NO CONNECTION 2. ANODE 3. ANODE 4. NO CONNECTION 5. ANODE 6. NO CONNECTION 7. ANODE 8. ANODE 9. ANODE 10. NO CONNECTION 11. ANODE 12. ANODE 13. NO CONNECTION 14. COMMON CATHODE	STYLE 4: PIN 1. NO CONNECTION 2. CATHODE 3. CATHODE 4. NO CONNECTION 5. CATHODE 6. NO CONNECTION 7. CATHODE 8. CATHODE 9. CATHODE 10. NO CONNECTION 11. CATHODE 12. CATHODE 13. NO CONNECTION 14. COMMON ANODE
STYLE 5: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. NO CONNECTION 7. COMMON ANODE 8. COMMON CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. ANODE/CATHODE 12. ANODE/CATHODE 13. NO CONNECTION 14. COMMON ANODE	STYLE 6: PIN 1. CATHODE 2. CATHODE 3. CATHODE 4. CATHODE 5. CATHODE 6. CATHODE 7. CATHODE 8. ANODE 9. ANODE 10. ANODE 11. ANODE 12. ANODE 13. ANODE 14. ANODE	STYLE 7: PIN 1. ANODE/CATHODE 2. COMMON ANODE 3. COMMON CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. ANODE/CATHODE 7. ANODE/CATHODE 8. ANODE/CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. COMMON CATHODE 12. COMMON ANODE 13. ANODE/CATHODE 14. ANODE/CATHODE	STYLE 8: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. NO CONNECTION 5. ANODE/CATHODE 6. ANODE/CATHODE 7. COMMON ANODE 8. COMMON ANODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. NO CONNECTION 12. ANODE/CATHODE 13. ANODE/CATHODE 14. COMMON CATHODE

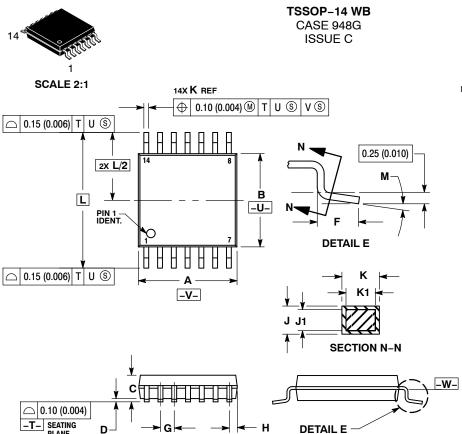
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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



NOTES.

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

2. CONTROLLING DIMENSION: MILLIMETER.

3. DIMENSION A DOES NOT INCLUDE MOLD

DATE 17 FEB 2016

- FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
 DIMENSION B DOES NOT INCLUDE
- INTERLEAD FLASH OR PROTRUSION.
 INTERLEAD FLASH OR PROTRUSION SHALL
- INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.

 5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.

 6. TERMINAL NUMBERS ARE SHOWN FOR DEFERENCE ONLY
- REFERENCE ONLY.
 DIMENSION A AND B ARE TO BE
- DETERMINED AT DATUM PLANE -W-

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
В	4.30	4.50	0.169	0.177
С		1.20		0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
Н	0.50	0.60	0.020	0.024
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40 BSC		0.252 BSC	
М	o°	8 °	0 °	8 °

GENERIC MARKING DIAGRAM*



= Assembly Location

= Wafer Lot = Year W

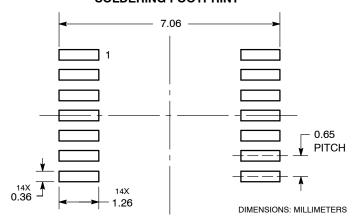
= Work Week

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

(Note: Microdot may be in either location)

RECOMMENDED SOLDERING FOOTPRINT*



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

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