

## MC74HC1G08DFT1 Datasheet



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DiGi Electronics Part Number MC74HC1G08DFT1-DG

Manufacturer onsemi

Manufacturer Product Number MC74HC1G08DFT1

Description IC GATE AND 1CH 2-INP SC88A

Detailed Description AND Gate IC 1 Channel SC-88A (SC-70-5/SOT-353)



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
MC74HC1G08DFT1	onsemi
Series:	Product Status:
74HC	Obsolete
Logic Type:	Number of Circuits:
AND Gate	1
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 6V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
2.6mA, 2.6mA	0.5V ~ 1.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 4.2V	17ns @ 6V, 50pF
Operating Temperature:	Mounting Type:
-55°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
SC-88A (SC-70-5/SOT-353)	5-TSSOP, SC-70-5, SOT-353
Base Product Number:	
74HC1G08	

## **Environmental & Export classification**

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

8542.39.0001



# Single 2-Input AND Gate MC74HC1G08

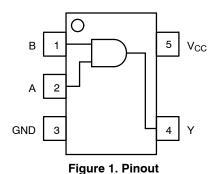
The MC74HC1G08 is a high speed CMOS 2-input AND gate fabricated with silicon gate CMOS technology.

The internal circuit is composed of multiple stages, including a buffer output which provides high noise immunity and stable output.

The MC74HC1G08 output drive current is 1/2 compared to MC74HC series.

#### **Features**

- High Speed:  $t_{PD} = 7 \text{ ns (Typ)}$  at  $V_{CC} = 5 \text{ V}$
- Low Power Dissipation:  $I_{CC} = 1 \mu A \text{ (Max)}$  at  $T_A = 25^{\circ}\text{C}$
- High Noise Immunity
- Balanced Propagation Delays  $(t_{pLH} = t_{pHL})$
- Symmetrical Output Impedance ( $I_{OH} = I_{OL} = 2 \text{ mA}$ )
- Chip Complexity: < 100 FETs
- –Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP Capable
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant



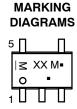
A \_\_\_\_\_\_ & \_\_\_\_\_\_ Y

Figure 2. Logic Symbol

	PIN ASSIGNMENT					
1	В					
2	А					
3	GND					
4	Y					
5	V <sub>CC</sub>					

1







TSOP-5 DT SUFFIX CASE 483





XX = Device Code M = Date Code\*

A = Assembly Location

Y = Year W = Work Week • = Pb-Free Package

(Note: Microdot may be in either location)\*Date Code orientation and/or position may vary depending upon manufacturing location.





XXX = Specific Device Code

(Note: Microdot may be in either location)

M = Date Code

■ = Pb–Free Package

#### **FUNCTION TABLE**

Inp	uts	Output
Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	н

#### **ORDERING INFORMATION**

See detailed ordering, marking and shipping information in the package dimensions section on page 6 of this data sheet.

#### **MAXIMUM RATINGS**

Symbol	Parameter		Value	Unit
V <sub>CC</sub>	DC Supply Voltage		-0.5 to +6.5	V
V <sub>IN</sub>	DC Input Voltage		-0.5 to V <sub>CC</sub> +0.5	V
V <sub>OUT</sub>	DC Output Voltage		$-0.5$ to $V_{CC} + 0.5$	V
I <sub>IK</sub>	DC Input Diode Current		±20	mA
l <sub>ok</sub>	DC Output Diode Current	±20	mA	
I <sub>OUT</sub>	DC Output Source/Sink Current	± 12.5	mA	
I <sub>CC</sub> or I <sub>GND</sub>	DC Supply Current per Supply Pin or Ground Pin		±25	mA
T <sub>STG</sub>	Storage Temperature Range		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for 10 Seconds		260	°C
$T_J$	Junction Temperature Under Bias		+ 150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 1)	SC-88A SC-74A	377 320	°C/W
$P_{D}$	Power Dissipation in Still Air at 85°C	SC-88A SC-74A	332 390	mW
MSL	Moisture Sensitivity		Level 1	
F <sub>R</sub>	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	
V <sub>ESD</sub>	ESD Withstand Voltage (Note 2)	Human Body Model Charged Device Model	2000 1000	V
I <sub>LATCHUP</sub>	Latchup Performance (Note 3)		±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. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 20 ounce copper trace with no air flow per JESD51-7.

  2. HBM tested to ANSI/ESDA/JEDEC JS-001-2017. CDM tested to JESD22-C101-F. JEDEC recommends that ESD qualification to EIA/JESD22-A115A (Machine Model) be discontinued per JEDEC/JEP172A.
- 3. Tested to EIA/JESD78 Class II.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Max	Unit
V <sub>CC</sub>	DC Supply Voltage	2.0	6.0	V
V <sub>IN</sub>	DC Input Voltage	0.0	$V_{CC}$	٧
V <sub>OUT</sub>	DC Output Voltage	0.0	$V_{CC}$	V
T <sub>A</sub>	Operating Temperature Range	-55	+ 125	°C
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time $V_{CC} = 2.0 \text{ V} \\ V_{CC} = 2.3 \text{ V to } 2.7 \text{ V} \\ V_{CC} = 3.0 \text{ V to } 3.6 \text{ V} \\ V_{CC} = 4.5 \text{ V to } 6.0 \text{ V}$	0 0 0	20 20 10 5	ns/V

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.

#### DC ELECTRICAL CHARACTERISTICS

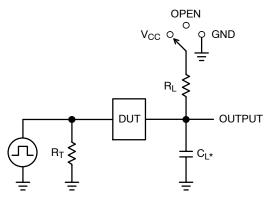
			v <sub>cc</sub>	Т	A = 25°	С	-40°C ≤ 1	Γ <sub>A</sub> ≤ 85°C	-55°C ≤ T	A ≤ 125°C	
Symbol	Parameter	Test Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V <sub>IH</sub>	High-Level Input Voltage		2.0 3.0 4.5 6.0	1.5 2.1 3.15 4.20	- - - -		1.5 2.1 3.15 4.20	- - - -	1.5 2.1 3.15 4.20	- - - -	٧
V <sub>IL</sub>	Low-Level Input Voltage		2.0 3.0 4.5 6.0	- - -	- - -	0.5 0.9 1.35 1.80		0.5 0.9 1.35 1.80		0.5 0.9 1.35 1.80	V
V <sub>OH</sub>	High-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -20 \mu A$	2.0 3.0 4.5 6.0	1.9 2.9 4.4 5.9	2.0 3.0 4.5 6.0	1 1 1 1	1.9 2.9 4.4 5.9	- - -	1.9 2.9 4.4 5.9	- - -	V
		$V_{IN} = V_{IH}$ or $V_{IL}$ $I_{OH} = -2$ mA $I_{OH} = -2.6$ mA	4.5 6.0	4.18 5.68	4.31 5.80	1 1	4.13 5.63	- -	4.08 5.58	- -	
V <sub>OL</sub>	Low-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = 20  \mu\text{A}$	2.0 3.0 4.5 6.0	1 1 1	0.0 0.0 0.0 0.0	0.1 0.1 0.1 0.1	1 1 1 1	0.1 0.1 0.1 0.1	1111	0.1 0.1 0.1 0.1	V
		$V_{IN} = V_{IH}$ or $V_{IL}$ $I_{OL} = 2 \text{ mA}$ $I_{OL} = 2.6 \text{ mA}$	4.5 6.0	1 1	0.17 0.18	0.26 0.26	1 1	0.33 0.33	1 1	0.40 0.40	
I <sub>IN</sub>	Input Leakage Current	V <sub>IN</sub> = 6.0 V or GND	6.0	_	-	±0.1	-	±1.0	-	±1.0	μА
Icc	Quiescent Supply Current	V <sub>IN</sub> = V <sub>CC</sub> or GND	6.0	_	-	1.0	-	10	-	40	μΑ

#### **AC ELECTRICAL CHARACTERISTICS**

		T <sub>A</sub> = 25°C		-40°C ≤ T <sub>A</sub> ≤ 85°C		$-55$ °C ≤ $T_A$ ≤ 125°C				
Symbol	Parameter	Test Conditions	Min	Тур	Max	Min	Max	Min	Max	Unit
t <sub>PLH</sub> ,	Propagation Delay,	V <sub>CC</sub> = 5.0 V C <sub>L</sub> = 15 pF	_	3.5	15	-	20	-	25	ns
t <sub>PHL</sub>	(A or B) to Y	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	- - -	20 11 8 7	100 27 20 17	- - -	125 35 25 21	- - -	155 90 35 26	
t <sub>TLH</sub> , t <sub>THL</sub>	Output Transition Time	$\begin{split} &V_{CC} = 5.0 \text{ V} & C_L = 15 \text{ pF} \\ &V_{CC} = 2.0 \text{ V} & C_L = 50 \text{ pF} \\ &V_{CC} = 3.0 \text{ V} & V_{CC} = 4.5 \text{ V} \\ &V_{CC} = 6.0 \text{ V} \end{split}$		3 25 16 11 9	10 125 35 25 21	- - - -	15 155 45 31 26	- - - -	20 200 60 38 32	ns
C <sub>IN</sub>	Input Capacitance		-	5	10	ı	10	_	10	pF

		Typical @ 25°C, V <sub>CC</sub> = 5.0 V	
$C_{PD}$	Power Dissipation Capacitance (Note 4)	10	pF

<sup>4.</sup> C<sub>PD</sub> is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained by the equation: I<sub>CC(OPR)</sub> = C<sub>PD</sub> • V<sub>CC</sub> • f<sub>in</sub> + I<sub>CC</sub>. C<sub>PD</sub> is used to determine the no–load dynamic power consumption; P<sub>D</sub> = C<sub>PD</sub> • V<sub>CC</sub><sup>2</sup> • f<sub>in</sub> + I<sub>CC</sub> • V<sub>CC</sub>.



Test	Switch Position	C <sub>L</sub> , pF	R <sub>L</sub> , Ω
t <sub>PLH</sub> / t <sub>PHL</sub>	Open		Х
t <sub>TLH</sub> / t <sub>THL</sub> (Note 5)	Open	See AC Characteristics Table	Х
t <sub>PLZ</sub> / t <sub>PZL</sub>	V <sub>CC</sub>	lable	1 k
t <sub>PHZ</sub> / t <sub>PZH</sub>	GND		1 k

X - Don't Care

\* $C_L$  includes probe and jig capacitance  $R_T$  is  $Z_{OUT}$  of pulse generator (typically 50 W) f = 1 MHz

Figure 3. Test Circuit

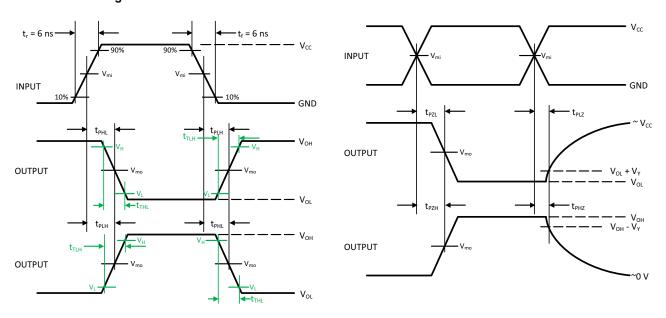


Figure 4. Switching Waveforms

		V <sub>mo</sub> , V				
V <sub>CC</sub> , V	$V_{mi}$ , $V$	t <sub>PLH</sub> , t <sub>PHL</sub>	$t_{PZL}, t_{PLZ}, t_{PZH}, t_{PHZ}$	$V_L,V$	V <sub>H</sub> , V	V <sub>Y</sub> , V
3.0 to 3.6	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>OL</sub> + 0.1 (V <sub>OH</sub> – V <sub>OL</sub> )	V <sub>OL</sub> + 0.9 (V <sub>OH</sub> – V <sub>OL</sub> )	0.3
4.5 to 5.5	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>CC</sub> /2	V <sub>OL</sub> + 0.1 (V <sub>OH</sub> – V <sub>OL</sub> )	V <sub>OL</sub> + 0.9 (V <sub>OH</sub> – V <sub>OL</sub> )	0.3

<sup>5.</sup>  $t_{TLH}$  and  $t_{THL}$  are measured from 10% to 90% of ( $V_{OH}$  –  $V_{OL}$ ), and 90% to 10% of ( $V_{OH}$  –  $V_{OL}$ ), respectively.

#### **ORDERING INFORMATION**

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping <sup>†</sup>
MC74HC1G08DFT1G	SC-88A	H2	Q2	3000 / Tape & Reel
MC74HC1G08DFT1G-Q*	SC-88A	H2	Q2	3000 / Tape & Reel
MC74HC1G08DFT2G	SC-88A	H2	Q4	3000 / Tape & Reel
MC74HC1G08DFT2G-Q*	SC-88A	H2	Q4	3000 / Tape & Reel
MC74HC1G08DBVT1G	SC-74A	H2	Q4	3000 / Tape & Reel
MC74HC1G08DBVT1G-Q*	SC-74A	H2	Q4	3000 / Tape & Reel

<sup>†</sup>For complete 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

### Pin 1 Orientation in Tape and Reel

#### **Direction of Feed**



Capable.



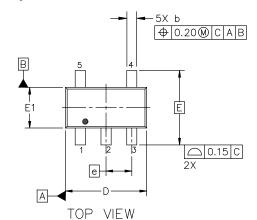
## **MECHANICAL CASE OUTLINE**

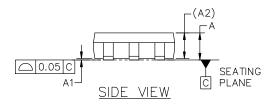
PACKAGE DIMENSIONS

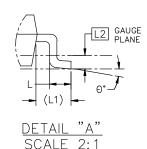


#### SC-74A-5 3.00x1.50x0.95, 0.95P CASE 318BQ ISSUE C

**DATE 26 FEB 2024** 







#### **GENERIC MARKING DIAGRAM\***



XXX = Specific Device Code

= Date Code M

= Pb-Free Package

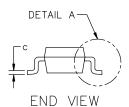
(Note: Microdot may be in either location)

\*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.

#### NOTES:

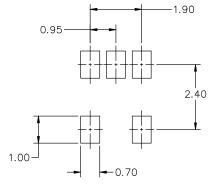
- DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.
- ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES).
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.

DIM



DIM			
	MIN.	NOM.	MAX.
Α	0.90	1.00	1.10
A1	0.01	0.18	0.10
A2	0.95 REF.		
b	0.25	0.37	0.50
С	0.10	0.18	0.26
D	2.85	3.00	3.15
E	2.75 BSC		
E1	1.35	1.50	1.65
е	0.95 BSC		
L	0.20	0.40	0.60
L1	0.62 REF.		
L2	0.25 BSC		
Θ	0,	5*	10°

**MILLIMETERS** 



#### RECOMMENDED MOUNTING FOOTPRINT\*

FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

DOCUMENT NUMBER:	98AON66279G	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.	
DESCRIPTION:	SC-74A-5 3.00x1.50x0.95, 0.95P		PAGE 1 OF 1

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## **MECHANICAL CASE OUTLINE**

PACKAGE DIMENSIONS



#### SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE M

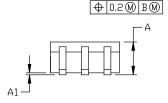
**DATE 11 APR 2023** 

#### NOTES:

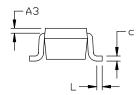
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS
- 419A-01 DBSDLETE. NEW STANDARD 419A-02
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

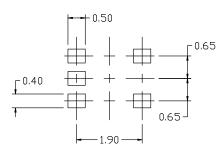
DIM	MILLIMETERS		
	MIN.	N□M.	MAX.
А	0.80	0.95	1.10
A1			0.10
A3	0.20 REF		
b	0.10	0.20	0.30
С	0.10		0.25
D	1.80	2.00	2,20
Е	2.00	2.10	2.20
E1	1.15	1.25	1.35
е	0.65 BSC		
L	0.10	0.15	0.30

## e Ε1 0



5X b





#### RECOMMENDED MOUNTING FOOTPRINT

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

#### **GENERIC MARKING DIAGRAM\***



\*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.

XXX = Specific Device Code

= Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1:
PIN 1. BASE
<ol><li>EMITTER</li></ol>
3. BASE
<ol><li>COLLECTOR</li></ol>
<ol><li>COLLECTOR</li></ol>

STYLE 6:

STYLE 2: PIN 1. ANODE 2. EMITTER 3. BASE 4. COLLECTOR CATHODE

STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. CATHODE 1

STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3 SOURCE 1 4. GATE 1 5. GATE 2

STYLE 5: PIN 1. CATHODE 2. COMMON ANODE

3. CATHODE 2 4. CATHODE 3 5. CATHODE 4

2. BASE 2 3. EMITTER 1 COLLECTOR 5. COLLECTOR 2/BASE 1

PIN 1. EMITTER 2

STYLE 7: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 5. COLLECTOR STYLE 8: PIN 1. CATHODE 2. COLLECTOR 3. N/C 4. BASE 5. EMITTER

PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5 ANODE

STYLE 9:

Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

#### **DOCUMENT NUMBER:**

98ASB42984B

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**DESCRIPTION:** 

SC-88A (SC-70-5/SOT-353)

PAGE 1 OF 1

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## **MECHANICAL CASE OUTLINE**

## PACKAGE DIMENSIONS

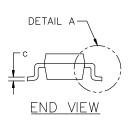


#### TSOP-5 3.00x1.50x0.95, 0.95P **CASE 483 ISSUE P**

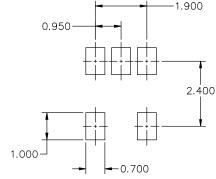
**DATE 01 APR 2024** 

#### NOTES:

- DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.
- 2.
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- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE. DIMENSION D.
- OPTIONAL CONSTRUCTION: AN ADDITIONAL TRIMMED LEAD IS ALLOWED IN THIS LOCATION. TRIMMED LEAD NOT TO EXTEND MORE THAN 0.2 FROM BODY.



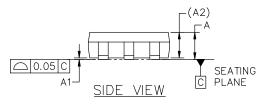
DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
Α	0.900	1.000	1.100
A1	0.010	0.055	0.100
A2	0.950 REF.		
b	0.250	0.375	0.500
С	0.100	0.180	0.260
D	2.850	3.000	3.150
Е	2.500	2.750	3.000
E1	1.350	1.500	1.650
е	0.950 BSC		
L	0.200	0.400	0.600
Θ	0.	5°	10°

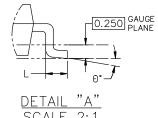


RECOMMENDED MOUNTING FOOTPRINT\*

FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

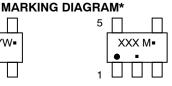
## ⊕ 0.20 M C A B NOTE 5 В Ė1 PIN 1 **IDENTIFIER** ΙAŀ TOP VIEW





## SCALE 2:1 **GENERIC**

# XXXAYW=



#### Analog

Discrete/Logic XXX = Specific Device Code XXX = Specific Device Code

= Assembly Location

Μ = Date Code = Pb-Free Package

= Year

= Work Week W = Pb-Free Package

(Note: Microdot may be in either location)

\*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.

**DOCUMENT NUMBER:** 

98ARB18753C

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**DESCRIPTION:** 

TSOP-5 3.00x1.50x0.95, 0.95P

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