Quad 2-Input Multiplexer

The MC74AC157/74ACT157 is a high-speed quad 2-input multiplexer. Four bits of data from two sources can be selected using the common Select and Enable inputs. The four outputs present the selected data in the true (non-inverted) form.

The MC74AC157/74ACT157 can also be used as a function generator.

Features

- Outputs Source/Sink 24 mA
- 'ACT157 Has TTL Compatible Inputs
- These are Pb-Free Devices

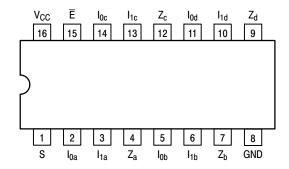


Figure 1. Pinout: 16-Lead Packages Conductors
(Top View)

TRUTH TABLE

	Inputs						
Ē	S	I ₀	I ₁	Z			
Н	Х	Х	Х	L			
L	Н	Χ	L	L			
L	Н	Х	Н	Н			
L	L	L	X	L			
L	L	Н	Χ	Н			

H = HIGH Voltage Level L = LOW Voltage Level

X = Immaterial



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MARKING DIAGRAMS



SOIC-16 D SUFFIX CASE 751B





TSSOP-16 DT SUFFIX CASE 948F



xxx = AC or ACT 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)

PIN NAMES

PIN	FUNCTION
$I_{0a}-I_{0d}$	Source 0 Data Inputs
I _{1a} –I _{1d}	Source 0 Data Inputs
Ē	Enable Input
S	Select Input
Z _a –Z _d	Outputs

ORDERING INFORMATION

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

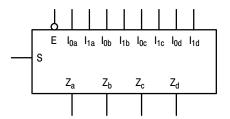


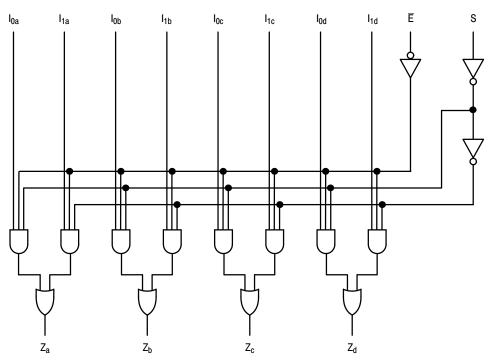
Figure 2. Logic Symbol

FUNCTIONAL DESCRIPTION

The MC74AC157/74ACT157 is a quad 2–input multiplexer. It selects four bits of data from two sources under the control of a common Select input (S). The Enable input ($\overline{\rm E}$) is active–LOW. When $\overline{\rm E}$ is HIGH, all of the outputs (Z) are forced LOW regardless of all other inputs. The MC74AC157/74ACT157 is the logic implementation of a 4–pole, 2–position switch where the position of the switch is determined by the logic levels supplied to the Select input. The logic equations for the outputs are shown below:

$$\begin{split} Z_a &= \overline{E} \bullet (I_{1a} \bullet S + I_{0a} \bullet \overline{S}) \\ Z_b &= \overline{E} \bullet (I_{1b} \bullet S + I_{0b} \bullet \overline{S}) \\ Z_c &= \overline{E} \bullet (I_{1c} \bullet S + I_{0c} \bullet \overline{S}) \\ Z_d &= \overline{E} \bullet (I_{1d} \bullet S + I_{0d} \bullet \overline{S}) \end{split}$$

A common use of the MC74AC157/74ACT157 is the moving of data from two groups of registers to four common output busses. The particular register from which the data comes is determined by the state of the Select input. A less obvious use is as a function generator. The MC74AC157/74ACT157 can generate any four of the sixteen different functions of two variables with one variable common. This is useful for implementing gating functions.



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 +7.0	V
VI	DC Input Voltage		$-0.5 \le V_{I} \le V_{CC} + 0.5$	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
I _O	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
θ_{JA}	Thermal Resistance (Note 2)	SOIC TSSOP	69.1 103.8	°C/W
P _D	Power Dissipation in Still Air at 65°C (Note 3)	SOIC TSSOP	500 500	mW
MSL	Moisture Sensitivity		Level 1	
F _R	Flammability Rating Oxygen Inc	dex: 30% – 35%	UL 94 V-0 @ 0.125 in	
V _{ESD}		Model (Note 4) Model (Note 5) Model (Note 6)	> 2000 > 200 > 1000	V
I _{Latch-Up}	Latch-Up Performance Above V _{CC} and Below GND a	at 85°C (Note 7)	± 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. I_O absolute maximum rating must be observed.
- 2. The package thermal impedance is calculated in accordance with JESD51-7.
- 3. 500 mW at 65°C; derate to 300 mW by 10 mW/ from 65°C to 85°C.
- 4. Tested to EIA/JESD22-A114-A.
- 5. Tested to EIA/JESD22-A115-A.
- 6. Tested to JESD22-C101-A.
- 7. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Parameter						
	Oursely Velland	'AC	2.0	5.0	6.0			
V _{CC}	Supply Voltage	'ACT	4.5	5.0	5.5	V		
V _{IN} , V _{OUT}	DC Input Voltage, Output Voltage (Ref. to GND)		0	-	V _{CC}	V		
		V _{CC} @ 3.0 V	_	150	-			
t_r , t_f	Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs	V _{CC} @ 4.5 V	-	40	-	ns/V		
	The Bottom of Object Committee Impact	V _{CC} @ 5.5 V	_	25	-			
	Input Rise and Fall Time (Note 2)	V _{CC} @ 4.5 V		10	-	0/		
t _r , t _f	'ACT Devices except Schmitt Inputs	V _{CC} @ 5.5 V	-	8.0	-	ns/V		
TJ	Junction Temperature (PDIP)		_	-	140	°C		
T _A	Operating Ambient Temperature Range	Ambient Temperature Range				°C		
I _{OH}	Output Current – High	urrent – High				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

			74	AC	74AC			
Symbol	Parameter	V _{CC} (V)	T _A = 4	-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	V	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} 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	Ι _{ΟUT} = 50 μΑ	
		3.0 4.5 5.5	- - -	0.36 0.36 0.36	0.44 0.44 0.44	V	$^{*}V_{IN} = V_{IL} \text{ or } V_{IH}$ 12 mA $I_{OL} \qquad 24 \text{ mA}$ 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	_	8.0	80	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_{IN} and I_{CC} @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V_{CC} .

AC CHARACTERISTICS (For Figures and Waveforms - See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

	Parameter			74AC		74	AC		
Symbol			T _A = +25°C C _L = 50 pF			T _A = -40°C to +85°C C _L = 50 pF		Unit	Fig. No.
			Min	Тур	Max	Min	Max		
t _{PLH}	Propagation Delay S to Z _n	3.3 5.0	1.5 1.5	7.0 5.5	11.5 9.0	1.5 1.5	13.0 10.0	ns	3–6
t _{PHL}	Propagation Delay S to Z _n	3.3 5.0	1.5 1.5	6.5 5.0	11.0 8.5	1.5 1.0	12.0 9.5	ns	3–6
t _{PLH}	Propagation Delay \overline{E} to Z_n	3.3 5.0	1.5 1.5	7.0 5.5	11.5 9.0	1.5 1.5	13.0 10.0	ns	3–6
t _{PHL}	Propagation Delay \overline{E}_n to Z_n	3.3 5.0	1.5 1.5	6.5 5.5	11.0 9.0	1.5 1.0	12 9.5	ns	3–6
t _{PLH}	Propagation Delay I_n to Z_n	3.3 5.0	1.5 1.5	5.0 4.0	8.5 6.5	1.0 1.0	9.0 7.0	ns	3–5
t _{PHL}	Propagation Delay I_n to Z_n	3.3 5.0	1.5 1.5	5.0 4.0	8.0 6.5	1.0 1.0	9.0 7.0	ns	3–5

^{*}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		
V _{IH}	Minimum High Level Input Voltage	4.5 5.5	1.5 1.5	2.0 2.0	2.0 2.0	V	$V_{OUT} = 0.1 \text{ V}$ or $V_{CC} - 0.1 \text{ V}$
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	$^{*}V_{IN} = V_{IL} \text{ or } V_{IH}$ $^{-24 \text{ mA}}$ $^{1}OH \qquad ^{-24 \text{ mA}}$
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	$^*V_{IN} = V_{IL} \text{ or } V_{IH}$ $^{24} \text{ mA}$ ^{1}OL $^{24} \text{ mA}$
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	$V_{I} = V_{CC} - 2.1 \text{ V}$
I _{OLD}	†Minimum Dynamic Output Current		_	-	75	mA	V _{OLD} = 1.65 V Max
I _{OHD}			-	-	- 75	mA	V _{OHD} = 3.85 V Min
Icc	Maximum Quiescent Supply Current	5.5	-	8.0	80	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 (For Figures and Waveforms – See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

	Parameter			74ACT		744	CT		
Symbol			T _A = +25°C C _L = 50 pF			T _A = -40°C to +85°C C _L = 50 pF		Unit	Fig. No.
			Min	Тур	Max	Min	Max		
t _{PLH}	Propagation Delay S to Z _n	5.0	2.0	1	9.0	1.5	10.0	ns	3–6
t _{PHL}	Propagation Delay S to Z _n	5.0	2.0	1	9.5	2.0	10.5	ns	3–6
t _{PLH}	Propagation Delay \overline{E}_n to Z_n	5.0	1.5	1	10	1.5	11.5	ns	3–6
t _{PHL}	Propagation Delay \overline{E}_n to Z_n	5.0	1.5	ı	8.5	1.0	9.0	ns	3–6
t _{PLH}	Propagation Delay I_n to Z_n	5.0	1.5	ı	7.0	1.0	8.5	ns	3–5
t _{PHL}	Propagation Delay I_n to Z_n	5.0	1.5	ı	7.5	1.0	8.5	ns	3–5

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

CAPACITANCE

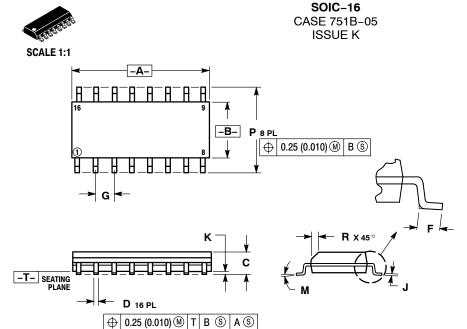
Symbol	Parameter	Value – Typ	Unit	Test Conditions
C _{IN}	Input Capacitance	4.5	pF	V _{CC} = 5.0 V
C _{PD}	Power Dissipation Capacitance	50	pF	V _{CC} = 5.0 V

ORDERING INFORMATION

Device Order Number	Package	Shipping [†]
MC74AC157DG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74AC157DR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74AC157DTR2G	TSSOP-16 (Pb-Free)	2500 Tape & Reel
MC74ACT157DG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74ACT157DR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74ACT157DTR2G	TSSOP-16 (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.

MECHANICAL CASE OUTLINE



DATE 29 DEC 2006

- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI
- THE NOTION AND TOLETANOING FER ANSI'Y 14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
 DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
- PHOI HUSION.

 MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.

 DIMENSION D DOES NOT INCLUDE DAMBAR
 PROTRUSION. ALLOWABLE DAMBAR PROTRUSION

 SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D

 DIMENSION AT MAXIMUM MATERIAL CONDITION.

	MILLIN	METERS	INC	HES		
DIM	MIN	MAX	MIN	MAX		
Α	9.80	10.00	0.386	0.393		
В	3.80	4.00	0.150	0.157		
C	1.35	1.75	0.054	0.068		
D	0.35	0.49	0.014	0.019		
F	0.40	1.25	0.016	0.049		
G	1.27	BSC	0.050	BSC		
J	0.19	0.25	0.008	0.009		
K	0.10	0.25	0.004	0.009		
M	0°	7°	0°	7°		
P	5.80	6.20	0.229	0.244		
R	0.25	0.50	0.010	0.019		

STYLE 1:		STYLE 2:		STYLE 3:		STYLE 4:			
PIN 1.	COLLECTOR	PIN 1.	CATHODE	PIN 1.	COLLECTOR, DYE #1	PIN 1.	COLLECTOR, DYE	#1	
2.	BASE	2.	ANODE	2.	BASE, #1	2.	COLLECTOR, #1		
3.	EMITTER	3.	NO CONNECTION	3.	EMITTER, #1	3.	COLLECTOR, #2		
4.	NO CONNECTION	4.	CATHODE	4.	COLLECTOR, #1	4.	COLLECTOR, #2		
5.	EMITTER	5.	CATHODE	5.	COLLECTOR, #2	5.	COLLECTOR, #3		
6.	BASE	6.	NO CONNECTION		BASE, #2	6.	COLLECTOR, #3		
7.	COLLECTOR	7.	ANODE	7.		7.	COLLECTOR, #4		
8.	COLLECTOR	8.	CATHODE	8.	COLLECTOR, #2	8.	COLLECTOR, #4		
9.	BASE	9.	CATHODE	9.	COLLECTOR, #3	9.	BASE, #4		
10.	EMITTER	10.	ANODE	10.	BASE, #3	10.	EMITTER, #4		
11.	NO CONNECTION	11.	NO CONNECTION	11.	EMITTER, #3	11.	BASE, #3		
12.	EMITTER	12.	CATHODE	12.	COLLECTOR, #3	12.	EMITTER, #3		
13.	BASE	13.	CATHODE	13.	COLLECTOR, #4	13.	BASE, #2	OOL DEDING	COOTDONT
14.	COLLECTOR	14.	NO CONNECTION	14.	BASE, #4	14.	EMITTER, #2	SOLDERING	FOOTPRINT
15.	EMITTER	15.	ANODE	15.	EMITTER, #4	15.	BASE, #1		8X
16.	COLLECTOR	16.	CATHODE	16.	COLLECTOR, #4	16.	EMITTER, #1		i.40 — →
								- 0	.40
STYLE 5:		STYLE 6:		STYLE 7:					16X 1.12
PIN 1.	DRAIN, DYE #1		CATHODE	PIN 1.	SOURCE N-CH				10% 1.12
2.	DRAIN, #1		CATHODE	2.	COMMON DRAIN (OUTPU	Τ\		1	16
3.	DRAIN, #2	3.		3.	COMMON DRAIN (OUTPU			, L .	'0
3. 4.	DRAIN, #2	3. 4.	CATHODE	3. 4.	GATE P-CH	1)		- —	
4. 5.	DRAIN, #2	4. 5.	CATHODE	4. 5.	COMMON DRAIN (OUTPU	Τ\		, , , , , , , , , , , , , , , , , , , 	
5. 6.	DRAIN, #3	6.	CATHODE	6.	COMMON DRAIN (OUTPU		16	5X 1 -	
7.	DRAIN, #4	7.	CATHODE	7.	COMMON DRAIN (OUTPU		0.5	58	, L
8.	DRAIN, #4	8.	CATHODE	8.	SOURCE P-CH	•,			
9.	GATE, #4	9.	ANODE	9.	SOURCE P-CH				
10.	SOURCE, #4	10.	ANODE	10.	COMMON DRAIN (OUTPU	T)			
11.	GATE, #3	11.		11.	COMMON DRAIN (OUTPU				
12.	SOURCE, #3	12.		12.	COMMON DRAIN (OUTPU				
13.	GATE, #2	13.		13.	GATE N-CH	.,			
14.	SOURCE, #2	14.		14.	COMMON DRAIN (OUTPU	T)			V PITCH
15.	GATE, #1	15.	ANODE	15.	COMMON DRAIN (OUTPU				1 <u>+=</u> 1_1
16.	SOURCE, #1		ANODE	16.	SOURCE N-CH	.,			
								□ 8	9 + - + -
									~
									' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
									DIMENSIONS: MILLIMETERS

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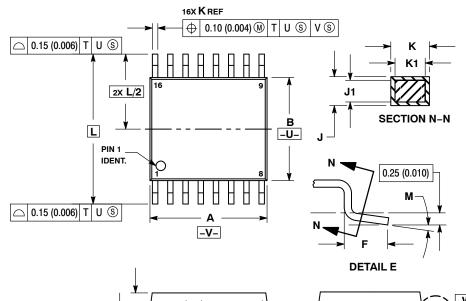
-T- SEATING PLANE





TSSOP-16 CASE 948F-01 ISSUE B

DATE 19 OCT 2006



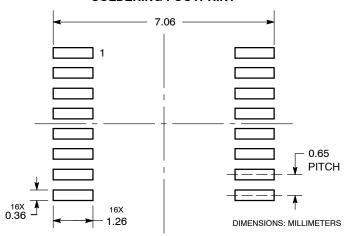
NOTES

- JIES:
 DIMENSIONING AND TOLERANCING PER
 ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: MILLIMETER.
 DIMENSION A DOES NOT INCLUDE MOLD
 FLASH. PROTRUSIONS OR GATE BURRS.
 MOLD EL ROLL OF GATE BURDS SUAL NO.
- 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 NOT EXCEED 0.25 (0.010) PER SIDE.
- 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. TERMINAL NUMBERS ARE SHOWN FOR
- REFERENCE ONLY.
- 7. 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
C		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	0.18	0.28	0.007	0.011
7	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
Ы	6.40 BSC		0.252 BSC	
М	0 °	8 °	0 °	8 °

SOLDERING FOOTPRINT

G



GENERIC MARKING DIAGRAM*

168888888 XXXX XXXX **ALYW** 188888888

XXXX = Specific Device Code Α = Assembly Location

= Wafer Lot L Υ = 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.

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