

NL17SZ08DFT2G Datasheet

DiGi Electronics Part Number

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Dial Electronics Full Number	NET/SEGODITEG DG
Manufacturer	onsemi
Manufacturer Product Number	NL17SZ08DFT2G
Description	IC GATE AND 1CH 2-INP SC88A
Detailed Description	AND Gate IC 1 Channel SC-88A (SC-70-5/SOT-353)

NI 175708DFT2G-DG

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
NL17SZ08DFT2G	onsemi
Series:	Product Status:
17SZ	Active
Logic Type:	Number of Circuits:
AND Gate	1
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
1.65V ~ 5.5V	1 µA
Current - Output High, Low:	Input Logic Level - Low:
32mA, 32mA	
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
	4.5ns @ 5V, 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:	
175Z08	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

onsemi

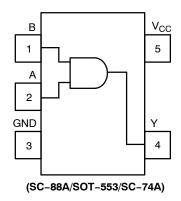
Single 2-Input AND Gate MARKING DIAGRAMS **NL17SZ08** SC-88A XX M= DF SUFFIX The NL17SZ08 is a single 2-input AND Gate in tiny footprint CASE 419A \mathbf{O} packages. Features • Designed for 1.65 V to 5.5 V V_{CC} Operation SC-74A XXX M **DBV SUFFIX** • 2.7 ns t_{PD} at $V_{CC} = 5 V (typ)$ CASE 318BQ • Inputs/Outputs Overvoltage Tolerant up to 5.5 V • IOFF Supports Partial Power Down Protection Source/Sink 24 mA at 3.0 V SOT-553 **XV5 SUFFIX** • Available in SC-88A, SC-74A, SOT-553, SOT-953 and UDFN6 CASE 463B Packages • Chip Complexity < 100 FETs SOT-953 • –Q Suffix for Automotive and Other Applications Requiring Unique **P5 SUFFIX** Site and Control Change Requirements; AEC-Q100 Qualified and CASE 527AE **PPAP** Capable • These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS UDFN6 Compliant XM 1.45 x 1.0 CASE 517AQ & R UDFN6 1.0 x 1.0 ΧМ Figure 1. Logic Symbol CASE 517BX ٥ XX = Specific Device Code М = Date Code* = Pb-Free Package *Date Code orientation and/or position may vary depending upon manufacturing location.

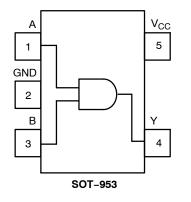
ORDERING INFORMATION

(Note: Microdot may be in either location)

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

NL17SZ08





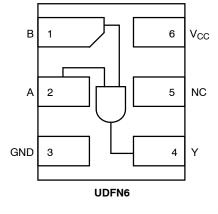


Figure 2. Pinout (Top View)

PIN ASSIGNMENT

(SC-88A/SOT-553/SC-74A)

Pin	Function
1	В
2	A
3	GND
4	Y
5	V _{CC}

PIN ASSIGNMENT (SOT-953)

Function
А
GND
В
Y
V _{CC}

PIN ASSIGNMENT (UDFN)

Pin	Function
1	В
2	A
3	GND
4	Y
5	NC
6	V _{CC}

FUNCTION TABLE

Ing	Output Y = AB	
Α	В	Y
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

NL17SZ08DFT2G onsemi IC GATE AND 1CH 2-INP SC88A

NL17SZ08

MAXIMUM RATINGS

Symbol	Characteristics		Value	Unit	
V _{CC}	DC Supply Voltage		–0.5 to +6.5	V	
V _{IN}	DC Input Voltage		-0.5 to +6.5	V	
V _{OUT}	Tri-St	High or Low State) ate Mode (Note 1) Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5	V	
Ι _{ΙΚ}	DC Input Diode Current	V _{IN} < GND	-50	mA	
Ι _{ΟΚ}	DC Output Diode Current	V _{OUT} < GND	-50	mA	
I _{OUT}	DC Output Source/Sink Current		±50	mA	
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin		±100	mA	
T _{STG}	Storage Temperature Range		-65 to +150	°C	
ΤL	Lead Temperature, 1 mm from Case for 10 secs	260	°C		
TJ	Junction Temperature Under Bias		+150	°C	
θ_{JA}	Thermal Resistance (Note 2)	SC-88A SC-74A SOT-553 SOT-953 UDFN6	377 320 324 254 154	°C/W	
PD	Power Dissipation in Still Air	SC-88A SC-74A SOT-553 SOT-953 UDFN6	332 390 386 491 812	mW	
MSL	Moisture Sensitivity		Level 1	-	
F _R	Flammability Rating Oxyg	en Index: 28 to 34	UL 94 V-0 @ 0.125 in	-	
V_{ESD}		uman Body Model ged Device Model	2000 1000	V	
I _{Latchup}	Latchup Performance (Note 4)		±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.

 Applicable to devices with outputs that may be tri-stated.
 Measured with minimum pad spacing on an FR4 board, using 10mm-by-1inch, 2 ounce copper trace no air flow per JESD51-7.
 HBM tested to ANSI/ESDA/JEDEC JS-001-2017. CDM tested to EIA/JESD22-C101-F. JEDEC recommends that ESD qualification to EIA/JESD22–A115–A (Machine Model) be discontinued per JEDEC/JEP172A. 4. Tested to EIA/JESD78 Class II.

RECOMMENDED OPERATING CONDITIONS

Symbol	Cha	Min	Max	Unit	
V _{CC}	Positive DC Supply Voltage		1.65	5.5	V
V _{IN}	DC Input Voltage		0	5.5	V
V _{OUT}	DC Output Voltage	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	0 0 0	V _{CC} 5.5 5.5	V
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time	$\begin{array}{l} V_{CC} = 1.65 \ V \ to \ 1.95 \ V \\ V_{CC} = 2.3 \ V \ to \ 2.7 \ V \\ V_{CC} = 3.0 \ V \ to \ 3.6 \ V \\ V_{CC} = 4.5 \ V \ to \ 5.5 \ V \end{array}$	0 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.

	Parameter	Condition	v _{cc}	T _A = 25°C			–55°C ≤ T		
Symbol			(V)	Min	Тур	Max	Min	Max	Units
VIH	High-Level Input Volt	age	1.65 to 1.95	0.65 x V _{CC}	-	_	0.65 x V _{CC}	_	V
			2.3 to 5.5	0.70 x V _{CC}	-	-	0.70 x V _{CC}	-	
VIL	Low-Level Input Volta	age	1.65 to 1.95	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
			2.3 to 5.5	-	-	$0.30 \times V_{CC}$	-	$0.30 \times V_{CC}$	
V _{OH}	High-Level Output Voltage	$ \begin{array}{l} V_{IN} = V_{IH} \mbox{ or } V_{IL} \\ I_{OH} = -100 \ \mu A \\ I_{OH} = -4 \ mA \\ I_{OH} = -8 \ mA \\ I_{OH} = -12 \ mA \\ I_{OH} = -16 \ mA \\ I_{OH} = -24 \ mA \\ I_{OH} = -32 \ mA \end{array} $	1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5	V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8	V _{CC} 1.4 2.1 2.4 2.7 2.5 4.0		V _{CC} - 0.1 1.29 1.9 2.2 2.4 2.3 3.8		V
V _{OL}	Low-Level Output Voltage		1.65 to 5.5 1.65 2.3 2.7 3.0 3.0 4.5		- 0.08 0.2 0.22 0.28 0.38 0.38	0.1 0.24 0.3 0.4 0.4 0.55 0.55		0.1 0.24 0.3 0.4 0.4 0.55 0.55	V
I _{IN}	Input Leakage Cur- rent	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	_	±0.1	_	±1.0	μA
I _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	μΑ
I _{CC}	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	5.5	-	_	1.0	_	10	μΑ

DC ELECTRICAL CHARACTERISTICS

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

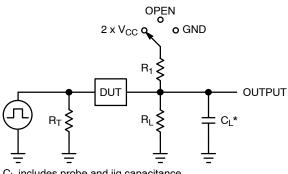
AC ELECTRICAL CHARACTERISTICS

			V _{cc}	T,	_Α = 25°	С	–55°C ≤ T	_A ≤ 125°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
t _{₽LH} ,	Propagation Delay, A to Y	R_L = 1 M Ω , C_L = 15 pF	1.65 to 1.95	-	6.3	12	_	12.7	ns
PHL	t _{PHL} (Figures 3 and 4)	R_L = 1 M Ω , C_L = 15 pF	2.3 to 2.7	-	3.4	7.0	_	7.5	
		R_L = 1 M Ω , C_L = 15 pF	3.0 to 3.6	-	2.6	4.7	-	5.0	
		$R_L = 500 \ \Omega$, $C_L = 50 \ pF$		-	3.3	5.2	-	5.5	
		$R_L = 1 M\Omega$, $C_L = 15 pF$	4.5 to 5.5	-	2.2	4.1	-	4.4	
		$R_L = 500 \ \Omega, \ C_L = 50 \ pF$		-	2.7	4.5	_	4.8	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Condition	Typical	Units
C _{IN}	Input Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{OUT}	Output Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	10 MHz, V _{CC} = 3.3 V, V _{IN} = 0 V or V _{CC} 10 MHz, V _{CC} = 5.5 V, V _{IN} = 0 V or V _{CC}	9 11	pF

5. C_{PD} 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: $I_{CC(OPR)} = C_{PD} \bullet V_{CC} \bullet f_{in} + I_{CC}$. C_{PD} is used to determine the no–load dynamic power consumption; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

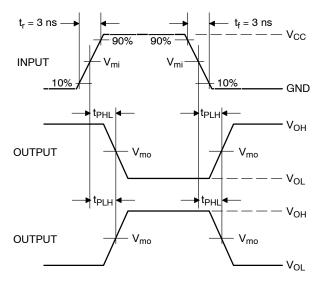


Switch Position	C _L , pF	R_{L}, Ω	R ₁ , Ω	
Open	See AC Characteristics Table			
$2 \times V_{CC}$	50	500	500	
GND	50	500	500	
	Position Open 2 x V _{CC}	Position See AC Character 0pen See AC Character 2 x V _{CC} 50	Position Epril Open See AC Characteristics Tat 2 x V _{CC} 50	

X = Don't Care

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

Figure 3. Test Circuit



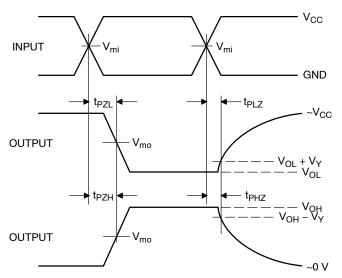


Figure 4. Switching Waveforms

		V _{mo} , V		
V _{CC} , V	V _{mi} , V	t _{PLH} , t _{PHL}	t _{PZL} , t _{PLZ} , t _{PZH} , t _{PHZ}	V _Y , V
1.65 to 1.95	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
2.3 to 2.7	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.15
3.0 to 3.6	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3
4.5 to 5.5	V _{CC} /2	V _{CC} /2	V _{CC} /2	0.3

DEVICE ORDERING INFORMATION

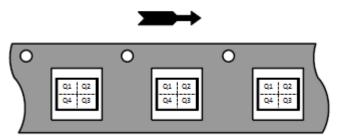
Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ08DFT2G	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DFT2G-Q*	SC-88A	L2	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08DBVT1G-Q*	SC-74A	AH	Q4	3000 / Tape & Reel
NL17SZ08XV5T2G	SOT-553	L2	Q4	4000 / Tape & Reel
NL17SZ08P5T5G	SOT-953	E (Rotated 180° CW)	Q2	8000 / Tape & Reel
NL17SZ08MU1TCG	UDFN6, 1.45 x 1.0, 0.5P	D (Rotated 180° CW)	Q4	3000 / Tape & Reel
NL17SZ08MU3TCG	UDFN6, 1.0 x 1.0, 0.35P	P (Rotated 180° CW)	Q4	3000 / 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.

Pin 1 Orientation in Tape and Reel

Direction of Feed





0.05 C

Α1

XXX

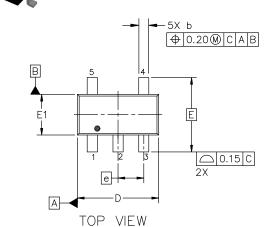
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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

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

DATE 26 FEB 2024



SIDE VIEW

(L1)

GENERIC **MARKING DIAGRAM***

> XXX M= -O

= Date Code

= Specific Device Code

= 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.

DETAIL SCALE 2:1 (A2)

Ċ

L2 GAUGE

Ð,

"A"

SEATING

PLANE

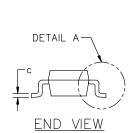
NOTES:

DIMENSIONING AND TOLERANCING CONFORM TO ASME 1. Y14.5-2018.

0.9

1.00

- 2. ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 3. 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, 4. PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.



101	LNOLLD	0.10 1 2	N SIDE.	
	DIM	М	ILLIMETER	RS
	DIM	MIN.	NOM.	MAX.
	A	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	(D.62 REF	
	L2		0.25 BSC	;
	Θ	0°	5°	10 °
	-	-	—1.90	
5—				
5				
	+;++;	++;+-	4	
	\neg \neg		 2.40	``
			2.40)
		\square	1	
	+++	+++-		

RECOMMENDED MOUNTING FOOTPRINT*

0.70

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 Printed versions are uncontrolled except when stamped "CONTROLLED C		
DESCRIPTION:	SC-74A-5 3.00x1.50x0.95,	0.95P	PAGE 1 OF 1

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PACKAGE DIMENSIONS



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

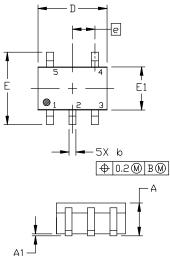
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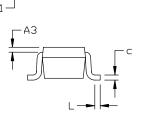
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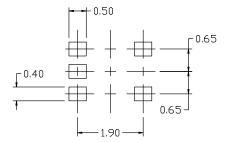
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DATE 11 APR 2023







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, SDLDERRM/D.

DIM	MILLIMETERS			
ויונע	MIN.	NDM.	MAX.	
A	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	
E	2.00	2.10	2.20	
E1	1.15	1.25	1.35	
e		0.65 BSC		
L	0.10	0.15	0.30	

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

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.

CONTROLLING DIMENSION: MILLIMETERS 419A-01 DBSDLETE, NEW STANDARD 419A-02

GENERIC MARKING





*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

M = Date Code = Pb-Free Package

(Note: Microdot may be in either location)

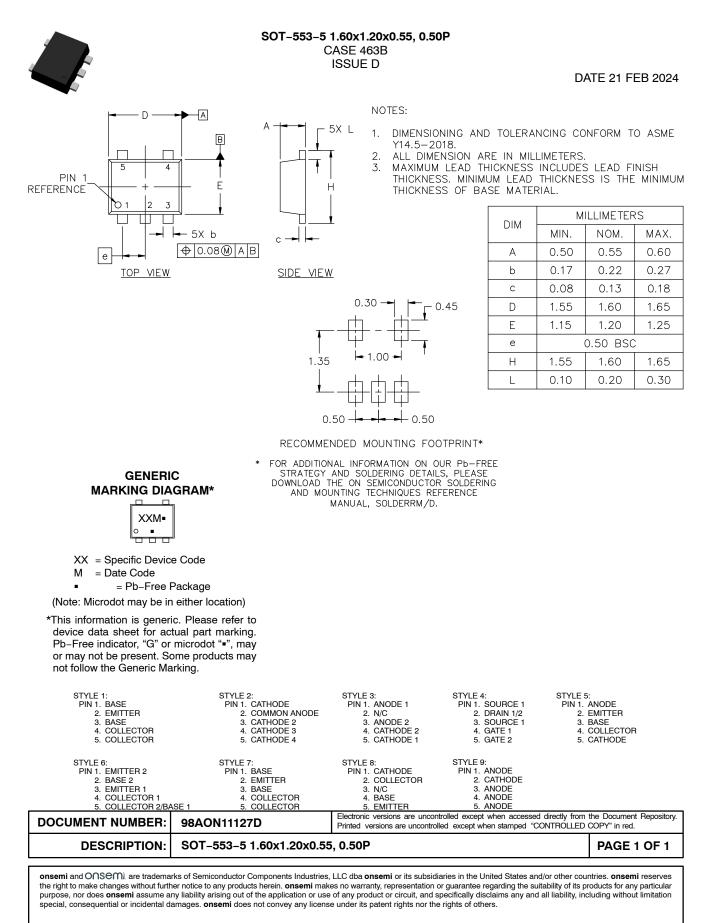
DESCRIPTION:	SC-88A (SC-70-	5/SOT-353)			PAGE 1 OF 1
DOCUMENT NUMBER:	98ASB42984B			ot when accessed directly from when stamped "CONTROLLED"	
4. COLLECTOR 5. COLLECTOR STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE	4. COLLECTOR 5. CATHODE STYLE 7: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 1 5. COLLECTOR	4. CATHODE 2 5. CATHODE 1 STYLE 8: PIN 1. CATHODE 2. COLLECTOR 3. N/C 4. BASE 5. EMITTER	4. GATE 1 5. GATE 2 STYLE 9: PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5. ANODE	4. CATHODE 3 5. CATHODE 4 Note: Please refer to style callout. If style t out in the datasheet r datasheet pinout or p	ype is not called refer to the device
STYLE 1: PIN 1. BASE 2. EMITTER 3. BASE	STYLE 2: PIN 1. ANODE 2. EMITTER 3. BASE	STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2	STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3. SOURCE 1	STYLE 5: PIN 1. CATHODE 2. COMMON ANOE 3. CATHODE 2	DE

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MECHANICAL CASE OUTLINE

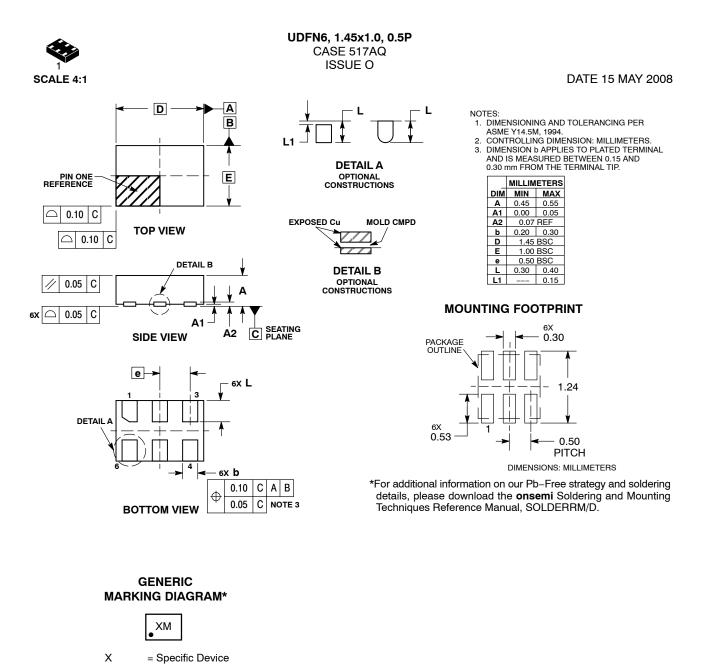
PACKAGE DIMENSIONS





MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS



Code *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.

DOCUMENT NUMBER:	98AON30313E Electronic versions are uncontrolled except when accessed directly from the Document Repos Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	UDFN6, 1.45x1.0, 0.5P		PAGE 1 OF 1
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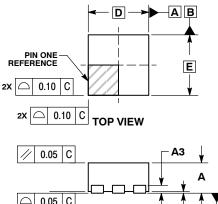
SCALE 4:1

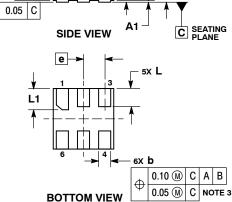
MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS

UDFN6, 1x1, 0.35P

CASE 517BX ISSUE O

DATE 18 MAY 2011



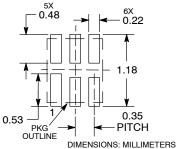


NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

- ASME Y14.3M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSION 6 APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN
- TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP. 4. PACKAGE DIMENSIONS EXCLUSIVE OF BURBS AND MOLD FLASH

BURRS AND MOLD FL				
	MILLIN	IETERS		
DIM	MIN	MAX		
Α	0.45	0.55		
A1	0.00	0.05		
A3	0.13	REF		
b	0.12	0.22		
D	1.00 BSC			
Е	1.00 BSC			
е	0.35 BSC			
L	0.25	0.35		
L1	0.30	0.40		

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.

GENERIC MARKING DIAGRAM*



X = Specific Device Code M = Date Code

*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.

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DESCRIPTION:	UDFN6, 1x1, 0.35P		PAGE 1 OF 1
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MECHANICAL CASE OUTLINE

MILLIMETERS

NDM

0.37

0.15

0.12

1.00

0.80

0.35 BSC

1.00

0.175

0.10

(REF)

0.350

0.075

0.200

MIN

0.34

0.10

0.07

0.95

0.75

0.95

0.125

0.05

0.350

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, SDLDERRM/D.

DIM

А

b

С

D

F

е

Н

L2

L3

PACKAGE -

DUTLINE

PACKAGE DIMENSIONS



SOT-953 1.00x0.80x0.37, 0.35P CASE 527AE ISSUE F

DATE 17 JAN 2024

МАХ

0.40

0.20

0.17

1.05

0.85

1.05

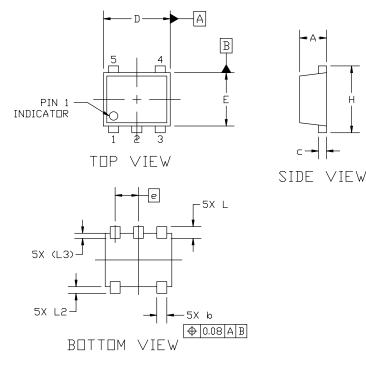
0.225

0.15

1.200

NDTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS DF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.



GENERIC MARKING DIAGRAM*



- X = Specific Device Code M = Month Code
- *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.

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