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Single Inverter with Schmitt Trigger

NL17SZ14

The NL17SZ14 is a single inverter with Schmitt trigger in tiny footprint packages.

Features

- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 3.7 ns t_{PD} at $V_{CC} = 5 V (typ)$
- Input/Output Overvoltage Tolerant up to 5.5 V
- IOFF Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.0 V
- Available in SC–88A, SC–74A, SOT–553, SOT–953 and UDFN6 Packages
- Chip Complexity < 100 FETs
- NLV Prefix 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

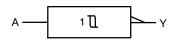


Figure 1. Logic Symbol



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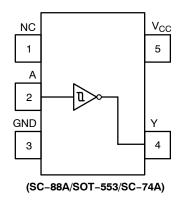
www.onsemi.com

		MARKING DIAGRAMS
	SC-88A DF SUFFIX CASE 419A	□ □ □ ×× м• • •
E	SC-74A DBV SUFFIX CASE 318BQ	□ □ ××× M• • •
	SOT-553 XV5 SUFFIX CASE 463B	XX M•
and the second s	SOT-953 P5 SUFFIX CASE 527AE	
1	UDFN6 1.45 x 1.0 CASE 517AQ	● ×M
Ŷ	UDFN6 1.0 x 1.0 CASE 517BX	X M ₁ ◦
XX M	= Specific Devi = Date Code* = Pb-Free Pac	
	licrodot may be in ei	
vary dep	de orientation and/opending upon manufa	or position may acturing location.

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 8 of this data sheet.

NL17SZ14



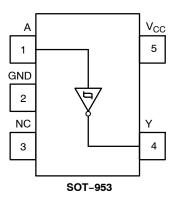
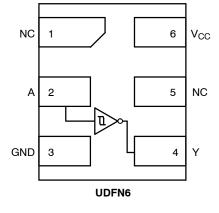


Figure 2. Pinout (Top View)



PIN ASSIGNMENT

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

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

PIN ASSIGNMENT (SOT-953)

Pin	Function
1	А
2	GND
3	NC
4	Y
5	V _{CC}

PIN ASSIGNMENT (UDFN)

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

FUNCTION TABLE

Input	Output
А	Y
L	Н
Н	L

MAXIMUM RATINGS

Symbol	Cha	aracteristics	Value	Unit	
V _{CC}	DC Supply Voltage SC-88A (NLV) SC-74A, SC-88A, SOT-553, SOT-953, UDFN6		-0.5 to +7.0 -0.5 to +6.5	V	
V _{IN}	DC Input Voltage	SC-88A (NLV) -74A, SC-88A, SOT-553, SOT-953, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V	
V _{OUT}	DC Output Voltage SC-88A (NLV)	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0	V	
	DC Output Voltage SC-74A, SC-88A, SOT-553, SOT-953, UDFN6	Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	$\begin{array}{c} -0.5 \text{ to } V_{CC} + 0.5 \\ -0.5 \text{ to } +6.5 \\ -0.5 \text{ to } +6.5 \end{array}$	V	
I _{IK}	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 of	±100	mA		
T _{STG}	Storage Temperature Range		-65 to +150	°C	
ΤL	Lead Temperature, 1 mm from Case	e 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	
P _D	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	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	_	
V _{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model Charged 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.
Tested to EIA/JESD78 Class II.

RECOMMENDED OPERATING CONDITIONS

Symbol	Chara	cteristics	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	
T _A	Operating Temperature Range		-55	+125	°C
t _r , t _f	Input Rise and Fall Time SC-88A (NLV)	V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V	0 0	No Limit No Limit	ns/V
	Input Rise and Fall Time SC-74A, SC-88A, SOT-553, SOT-953, UDFN6	$\begin{array}{c} V_{CC} = 1.65 \ V \ to \ 1.95 \ V \\ V_{CC} = 2.3 \ V \ to \ 2.7 \ V \\ V_{CC} = 3.0 \ V \ to \ 3.6 \ V \\ V_{CC} = 4.5 \ V \ to \ 5.5 \ V \end{array}$	0 0 0 0	No Limit No Limit No Limit No Limit	

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 _{CC}	Т	4 = 25°C	;	–55°C ≤ T _A ≤ 125°C		
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Units
V _T +	Positive Input		1.65	-	1.0	1.4	-	1.4	V
	Threshold Voltage		2.3	-	1.5	1.8	-	1.8	
			2.7	-	1.7	2.0	-	2.0	
			3.0	-	1.9	2.2	-	2.2	
			4.5	-	2.7	3.1	-	3.1	
			5.5	-	3.3	3.6	-	3.6	
V _T -	Negative Input		1.65	0.2	0.5	-	0.2	_	V
	Threshold Voltage		2.3	0.4	0.75	-	0.4	-	
			2.7	0.5	0.87	-	0.5	-	
			3.0	0.6	1.0	-	0.6	-	
			4.5	1.0	1.5	_	1.0	_	
			5.5	1.2	1.9	_	1.2	_	
V _H	Input Hysteresis		1.65	0.1	0.48	0.9	0.1	0.9	V
	Voltage		2.3	0.25	0.75	1.1	025	1.1	
			2.7	0.3	0.83	1.15	0.3	1.15	
			3.0	0.4	0.93	1.2	0.4	1.2	
			4.5	0.6	1.2	1.5	0.6	1.5	
			5.5	0.7	1.4	1.7	0.7	1.7	
V _{OH}	High-Level Output Voltage		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 0.42	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 Current	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	μA
I _{CC}	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND	5.5	-	-	1.0	-	10	μΑ

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.

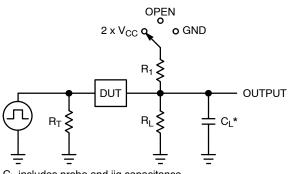
AC ELECTRICAL CHARACTERISTICS

			V _{CC}	T _A = 25°C		–55°C ≤ T			
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	-	9.1	15	-	15.6	ns
t _{PHL}	(Figures 3 and 4)	R_L = 1 M Ω , C_L = 15 pF	2.3 to 2.7	-	5.0	9.0	-	9.5	
		R_L = 1 MΩ, C_L = 15 pF	3.0 to 3.6	-	3.7	6.3	-	6.5	
		$R_L = 500 \ \Omega$, $C_L = 50 \ pF$		-	4.4	7.2	-	7.5	
		R_L = 1 MΩ, C_L = 15 pF	4.5 to 5.5	-	3.1	5.2	-	5.5	
		$R_L = 500 \ \Omega, \ C_L = 50 \ pF$		-	3.7	5.9	-	6.2	

CAPACITIVE CHARACTERISTICS

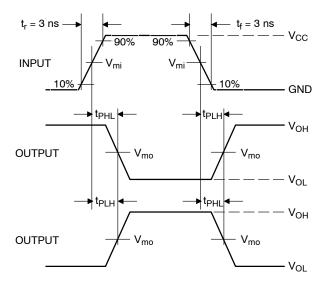
Symbol	Parameter	Condition	Typical	Units
C _{IN}	Input Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{OUT}	Output Capacitance	V_{CC} = 5.5 V, V_{IN} = 0 V or V_{CC}	2.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	10 MHz, V _{CC} = 3.3 V, V _{IN} = 0 V or V _{CC} 10 MHz, V _{CC} = 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; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.



 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



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 Open See AC Character 2 x V _{CC} 50	Position See AC Characteristics Table Open See AC Characteristics Table 2 x V _{CC} 50		

X = Don't Care

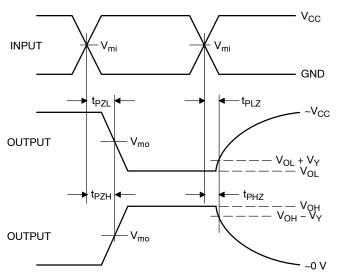


Figure 4. Switching Waveforms

		Vm		
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

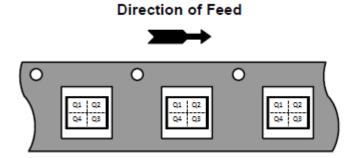
DEVICE ORDERING INFORMATION

Device	Packages	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL17SZ14DFT2G	SC-88A	LA	Q4	3000 / Tape & Reel
NLV17SZ14DFT2G*	SC-88A	LA	Q4	3000 / Tape & Reel
NL17SZ14DBVT1G	SC-74A	AK	Q4	3000 / Tape & Reel
NL17SZ14XV5T2G	SOT-553	LA	Q4	4000 / Tape & Reel
NL17SZ14P5T5G	SOT-953	F (Rotated 180° CW)	Q2	8000 / Tape & Reel
NL17SZ14MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P	TBD	Q4	3000 / Tape & Reel
NL17SZ14MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P	TBD	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.

*NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

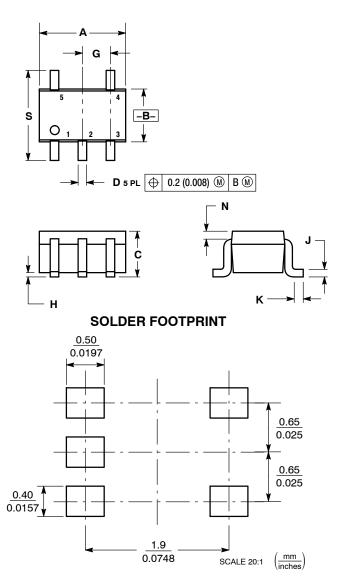
Pin 1 Orientation in Tape and Reel



NL17SZ14

PACKAGE DIMENSIONS

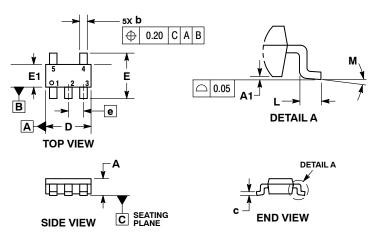
SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE L



NOTES:
 DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 CONTROLLING DIMENSION: INCH.
 419A-01 OBSOLETE. NEW STANDARD 419A-02.
 DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
Α	0.071	0.087	1.80	2.20
В	0.045	0.053	1.15	1.35
С	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
Н		0.004		0.10
J	0.004	0.010	0.10	0.25
К	0.004	0.012	0.10	0.30
Ν	0.008 REF		0.20	REF
S	0.079	0.087	2.00	2.20

SC-74A CASE 318BQ **ISSUE B**

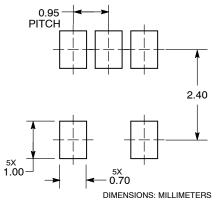


NOTES:

- NOTES:
 DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
 DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEPT 0.15 PER SIDE EXCEED 0.15 PER SIDE.

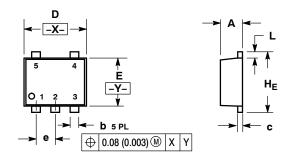
	MILLIMETERS	
DIM	MIN	MAX
Α	0.90	1.10
A1	0.01	0.10
b	0.25	0.50
С	0.10	0.26
D	2.85	3.15
Е	2.50	3.00
E1	1.35	1.65
е	0.95 BSC	
L	0.20	0.60
М	0 °	10 °

RECOMMENDED SOLDERING FOOTPRINT*

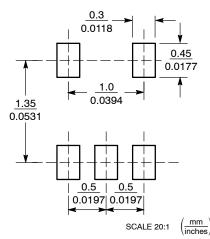


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

SOT-553, 5 LEAD CASE 463B ISSUE C



RECOMMENDED SOLDERING 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.

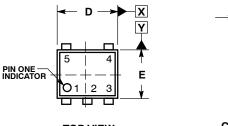
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1. 2. 3.

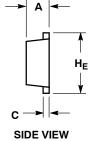
DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETERS MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.50	0.55	0.60	0.020	0.022	0.024
b	0.17	0.22	0.27	0.007	0.009	0.011
С	0.08	0.13	0.18	0.003	0.005	0.007
D	1.55	1.60	1.65	0.061	0.063	0.065
Е	1.15	1.20	1.25	0.045	0.047	0.049
е	0.50 BSC		0.020 BSC)	
L	0.10	0.20	0.30	0.004	0.008	0.012
HE	1.55	1.60	1.65	0.061	0.063	0.065

SOT-953 CASE 527AE ISSUE E





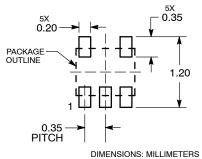


- NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS
 MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

	MILLIMETERS		
DIM	MIN	NOM	MAX
Α	0.34	0.37	0.40
b	0.10	0.15	0.20
С	0.07	0.12	0.17
D	0.95	1.00	1.05
E	0.75	0.80	0.85
e	0.35 BSC		
ΗE	0.95	1.00	1.05
L	0.175 REF		
L2	0.05	0.10	0.15
L3			0.15

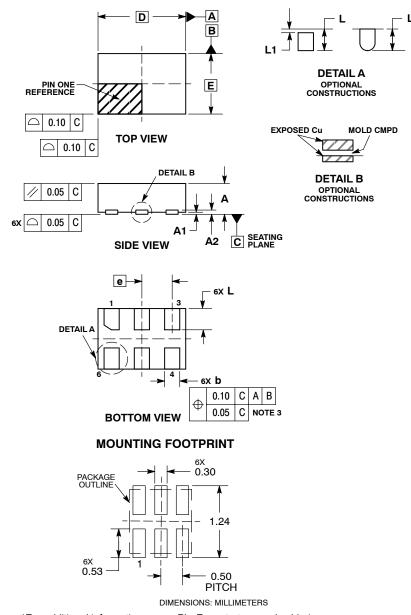
< e - 5X L 5X L3 5X L2 5X b ⊕ 0.08 X Y **BOTTOM VIEW**

SOLDERING 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.

UDFN6, 1.45x1.0, 0.5P CASE 517AQ ISSUE O

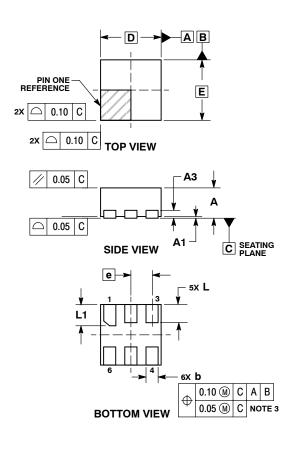


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

NOTES:
 DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.

	MILLIMETERS		
DIM	MIN MAX		
Α	0.45	0.55	
A1	0.00 0.05		
A2	0.07 REF		
b	0.20 0.30		
D	1.45 BSC		
E	1.00 BSC		
е	0.50 BSC		
L	0.30	0.40	
L1		0.15	

UDFN6, 1x1, 0.35P CASE 517BX ISSUE O

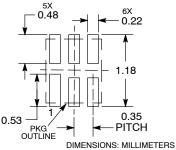


- NOTES: 1. DIMENSIONING AND TOLERANCING PER ASME X14 5M 1994
- ASME Y14.5M, 1994. 2. CONTROLLING DIMENSION: MILLIMETERS. 3. DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN
- TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP. 4. PACKAGE DIMENSIONS EXCLUSIVE OF

BURF	IS AND I	MOLD FI	LASH.	
	MILLIN	MILLIMETERS		
DIM	MIN MAX			
Α	0.45 0.55			
A1	0.00	0.05		
A3	0.13	0.13 REF		
b	0.12	0.22		
D	1.00 BSC			
Е	1.00 BSC			
	DIM A A1 A3 b D	MILLIN DIM MIN A 0.45 A1 0.00 A3 0.13 b 0.12 D 1.00	DIM MAX A 0.45 0.55 A1 0.00 0.05 A3 0.13 REF b 0.12 0.22 D 1.00 SSC	

0.35 BSC 0.25 0.35 0.30 0.40

RECOMMENDED
SOLDERING 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.

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