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Configurable Multifunction Gate

NL7SZ58

The NL7SZ58 is an advanced high-speed CMOS multifunction gate. The device allows the user to choose logic functions AND, OR, NAND, NOR, XOR, INVERT and BUFFER.

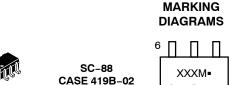
Features

- Designed for 1.65 V to 5.5 V V_{CC} Operation
- 3.3 ns t_{PD} at $V_{CC} = 5 \text{ V (Typ)}$
- Inputs/Outputs Overvoltage Tolerant up to 5.5 V
- I_{OFF} Supports Partial Power Down Protection
- Sink 24 mA at 3.0 V
- Available in SC-88, SC-74 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



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UDFN6, 1x1, 0.35P CASE 517BX



XXX = Specific Device Code

M = Date Code*■ Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

ORDERING INFORMATION

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

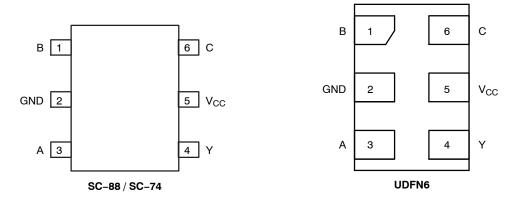


Figure 1. Pinout (Top View)

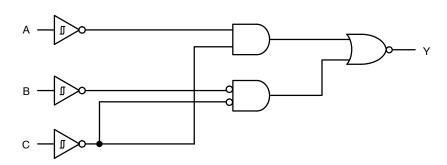


Figure 2. Function Diagram

PIN ASSIGNMENT

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

FUNCTION TABLE*

	Input					
Α	В	С	Υ			
L	L	L	L			
L	L	Н	Н			
L	Н	L	L			
L	Н	Н	L			
Н	L	L	Н			
Н	L	Н	Н			
Н	Н	L	Н			
Н	Н	Н	L			

^{*}To select a logic function, please refer to "Logic Configurations section".

LOGIC CONFIGURATIONS

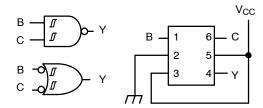


Figure 3. 2-Input NAND (When A = "H")

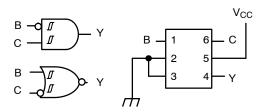


Figure 4. 2-Input AND with Input B Inverted (When A = "L")

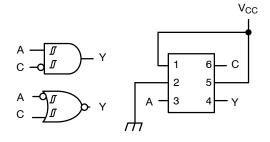


Figure 5. 2-Input AND with Input C Inverted (When B = "H")

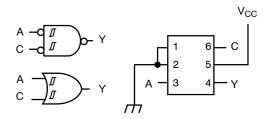


Figure 6. 2-Input OR (When B = "L")

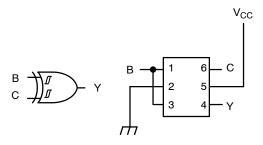


Figure 7. 2-Input XOR (When A = B)

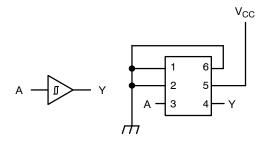


Figure 8. Buffer (When B = C = "L")

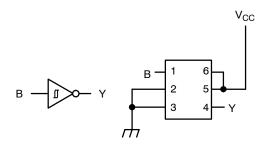


Figure 9. Inverter (When A = "L" and C = "H")

MAXIMUM RATINGS

Symbol	Param	Value	Unit	
V_{CC}	DC Supply Voltage	SC-88 (NLV) SC-88, SC-74, UDFN6	-0.5 to +7.0 -0.5 to +6.5	V
V _{IN}	DC Input Voltage	SC-88 (NLV) SC-88, SC-74, UDFN6	-0.5 to +7.0 -0.5 to +6.5	٧
V _{OUT}	DC Output Voltage SC-88 (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-88, SC-74, UDFN6	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 +6.5 -0.5 to +6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	-50	mA
lok	DC Output Diode Current	V _{OUT} < GND	-50	mA
l _{OUT}	DC Output Source/Sink Current		±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Gro	und Pin	±100	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for 1	0 Secs	260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2)	SC-88 SC-74 UDFN6	377 320 154	°C/W
P_{D}	Power Dissipation in Still Air	SC-88 SC-74 UDFN6	332 390 812	mW
MSL	Moisture Sensitivity		Level 1	
F _R	Flammability Rating Oxygen	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	
V _{ESD}	ESD Withstand Voltage (Note 3)	Human Body Mode Charged Device Model (NLV) Charged Device Model	>2000 >200 N/A	V
I _{LATCHUP}	Latchup Performance (Note 4)	(NLV)	±500 ±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. Applicable to devices with outputs that may be tri–stated.

- Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow per JESD51-7.
 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	P	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	5.5	V
T _A	Operating Free-Air Temperature		-55	+125	°C
t _r , t _f	Input Rise or Fall Rate	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$ $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	0 0 0	No Limit No Limit No Limit No Limit	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 _{CC}	-	Γ _A = 25°(C		S ≤ T _A S5°C		S ≤ T _A 25°C	
Symbol	Parameter	Condition	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V _T +	Positive Input		1.65	-	-	1.4	-	1.4	-	1.4	V
	Threshold Voltage		2.3	-	-	1.8	-	1.8	-	1.8	1
			3.0	-	-	2.2	-	2.2	-	2.2	
			4.5	-	-	3.1	-	3.1	-	3.1	1
			5.5	-	-	3.6	-	3.6	-	3.6	1
V _T -	Negative Input		1.65	0.2	-	-	0.2	-	0.2	-	V
	Threshold Voltage		2.3	0.4	-	-	0.4	-	0.4	-	
			3.0	0.6	-	-	0.6	-	0.6	-	
			4.5	1.0	-	-	1.0	-	1.0	-	
			5.5	1.2	-	-	1.2	-	1.2	-	1
V _H	Input Hysteresis		1.65	0.1	0.48	0.9	0.1	0.9	0.1	0.9	V
	Voltage		2.3	0.25	0.75	1.1	0.25	1.1	0.25	1.1	1
			3	0.4	0.93	1.2	0.4	1.2	0.4	1.2	1
			4.5	0.6	1.2	1.5	0.6	1.5	0.6	1.5	1
			5.5	0.7	1.4	1.7	0.7	1.7	0.7	1.7	1
V _{OH}	High-Level Output Voltage	I _{OH} = -50 μA	1.65 to 5.5	V _{CC} - 0.1	V _{CC}	-	V _{CC} - 0.1	-	V _{CC} - 0.1	-	V
	$V_{IN} = V_{IH}$ or V_{IL}	I _{OH} = -4 mA	1.65	1.20	1.52	-	1.20	-	1.20	-	
		I _{OH} = -8 mA	2.3	1.9	2.1	-	1.9	-	1.9	-	
		I _{OH} = -16 mA	3	2.4	2.7	-	2.4	-	2.4	-	
		I _{OH} = -24 mA	3	2.3	2.5	-	2.3	-	2.3	-	
		I _{OH} = -32 mA	4.5	3.8	4	-	3.8	-	3.8	-	
V _{OL}	Low-Level Output Voltage	I _{OL} = 100 μA	1.65 to 5.5	-	_	0.1	-	0.1	-	0.1	V
	$V_{IN} = V_{IH}$ or V_{IL}	I _{OL} = 4 mA	1.65	-	0.08	0.45	-	0.45	-	0.45	1
		I _{OL} = 8 mA	2.3	-	0.2	0.3	-	0.3	-	0.4	1
		I _{OL} = 16 mA	3	-	0.28	0.4	-	0.4	-	0.5	1
		I _{OL} = 24 mA	3	-	0.38	0.55	-	0.55	-	0.55	1
		I _{OL} = 32 mA	4.5	-	0.42	0.55	-	0.55	-	0.65	
I _{IN}	Input Leakage Current	V _{IN} = 5.5 V or GND	1.65 to 5.5	-	-	+0.1	-	+1.0	-	+1.0	μΑ
l _{OFF}	Power Off Leakage Current	V _{IN} = 5.5 V or V _{OUT} = 5.5 V	0	-	-	1.0	-	10	-	10	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = 5.5 V or GND	5.5	-	-	1.0	-	10	-	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.

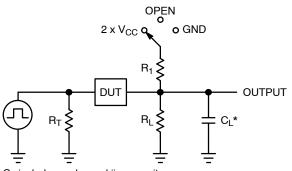
AC ELECTRICAL CHARACTERISTICS

				7	Γ _A = 25°0	C		S ≤ T _A S5°C		≤ T _A 25°C	
Symbol	Parameter	Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Min	Max	Unit
t _{PLH} , Propagation Delay, t _{PHL} (A or B or C) to Y	$R_L = 1 \text{ k}\Omega,$ $C_L = 30 \text{ pF}$	1.65 to 1.95	_	8.6	14.4	-	14.4	-	14.4	ns	
	(Figures 10 and 11)	$R_L = 500 \Omega$, $CL = 30 pF$	2.3 to 2.7	_	5.1	8.3	-	8.3	-	8.3	
		R _L = 500 Ω,	3.0 to 3.6	-	3.9	6.3	-	6.3	-	6.3	
		C _L = 50 pF	4.5 to 5.5	-	3.3	5.1	_	5.1	-	5.1	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Condition	Typical	Unit
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}	4.0	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} = 5.0 V, V_{IN} = 0 V or V_{CC}	16 19.5	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: $I_{CC(OPR)} = C_{PD} \bullet V_{CC} \bullet f_{in} + I_{CC} \cdot C_{PD}$ is used to determine the no–load dynamic power consumption; $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.



Test	Switch Position	C _L , pF	R_L , Ω	R ₁ , Ω		
t _{PLH} / t _{PHL}	Open	See AC Characteristics Table				
t _{PLZ} / t _{PZL}	2 x V _{CC}	50	500	500		
t _{PHZ} / t _{PZH}	GND	50	500	500		

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 10. Test Circuit

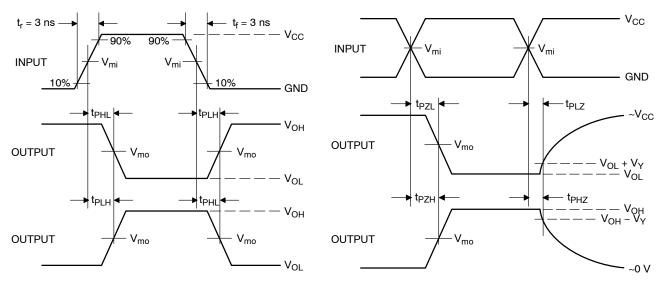


Figure 11. Switching Waveforms

		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

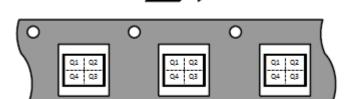
ORDERING INFORMATION

Device	Package	Specific Device Code	Pin 1 Orientation (See below)	Shipping [†]
NL7SZ58DFT2G	SC-88 (Pb-Free)	MM	Q4	3000 / Tape & Reel
NLV7SZ58DFT2G*	SC-88 (Pb-Free)	MM	Q4	3000 / Tape & Reel
NL7SZ58DBVT1G	SC-74 (Pb-Free)	AM	Q4	3000 / Tape & Reel
NL7SZ58MU1TCG (In Development)	UDFN6, 1.45 x 1.0, 0.5P (Pb-Free)	TBD	Q4	3000 / Tape & Reel
NL7SZ58MU3TCG (In Development)	UDFN6, 1.0 x 1.0, 0.35P (Pb-Free)	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-Q101 Qualified and PPAP

Pin 1 Orientation in Tape and Reel

Direction of Feed

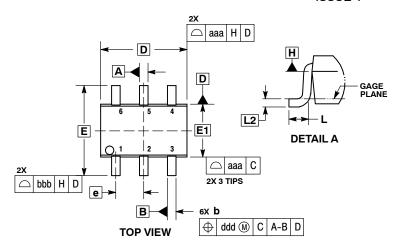


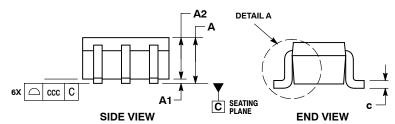
Capable.

PACKAGE DIMENSIONS

SC-88/SC70-6/SOT-363

CASE 419B-02 **ISSUE Y**





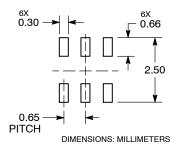
- NOTES:

 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER END.
 4. DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AND DATUM H.
 5. DATUMS A AND B ARE DETERMINED AT DATUM H.
 6. DIMENSIONS b AND c APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 AND 0.15 FROM THE TIP.
 7. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION

- DIMENSION 5 DOES NOT INCLUDE DAMBAR PROTRUSION.
 ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN
 EXCESS OF DIMENSION 5 AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER

	MIL	LIMETE	RS		INCHES	3
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α			1.10			0.043
A1	0.00		0.10	0.000		0.004
A2	0.70	0.90	1.00	0.027	0.035	0.039
b	0.15	0.20	0.25	0.006	0.008	0.010
С	0.08	0.15	0.22	0.003	0.006	0.009
D	1.80	2.00	2.20	0.070	0.078	0.086
Е	2.00	2.10	2.20	0.078	0.082	0.086
E1	1.15	1.25	1.35	0.045	0.049	0.053
е		0.65 BS	С	0.026 BSC		
L	0.26	0.36	0.46	0.010	0.014	0.018
L2		0.15 BS	C	(0.006 BS	SC
aaa	0.15				0.006	
bbb	0.30				0.012	
ccc	0.10			0.004		
ddd	0.10				0.004	

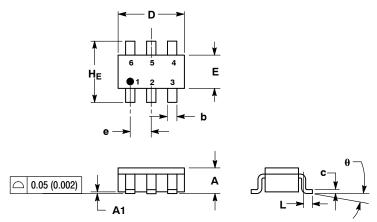
RECOMMENDED SOLDERING FOOTPRINT*



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

PACKAGE DIMENSIONS

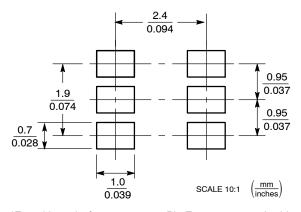
SC-74 CASE 318F-05 **ISSUE N**



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH
 THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM
 THICKNESS OF BASE MATERIAL.
 4. 318F-01, -02, -03, -04 OBSOLETE. NEW STANDARD 318F-05.

	MILLIMETERS				INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX	
Α	0.90	1.00	1.10	0.035	0.039	0.043	
A1	0.01	0.06	0.10	0.001	0.002	0.004	
b	0.25	0.37	0.50	0.010	0.015	0.020	
С	0.10	0.18	0.26	0.004	0.007	0.010	
D	2.90	3.00	3.10	0.114	0.118	0.122	
E	1.30	1.50	1.70	0.051	0.059	0.067	
е	0.85	0.95	1.05	0.034	0.037	0.041	
L	0.20	0.40	0.60	0.008	0.016	0.024	
HE	2.50	2.75	3.00	0.099	0.108	0.118	
θ	0°	_	10°	0°	_	10°	

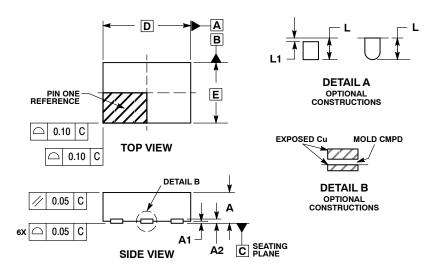
SOLDERING FOOTPRINT*



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

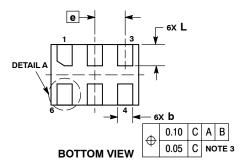
PACKAGE DIMENSIONS

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

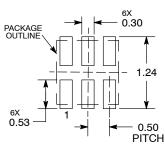


- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 2. CONTROLLING DIMENSION: MILLIMETERS.
 3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.

	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		
Е	1.00 BSC		
е	0.50 BSC		
L	0.30	0.40	
L1		0.15	



MOUNTING FOOTPRINT

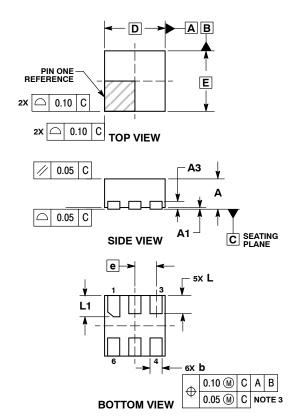


DIMENSIONS: MILLIMETERS

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

PACKAGE DIMENSIONS

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

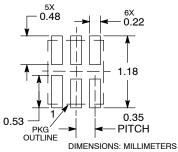


NOTES

- DIMENSIONING AND TOLERANCING PER
- ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSION 6 APPLIES TO PLATED
 TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP. PACKAGE DIMENSIONS EXCLUSIVE OF
- BURRS AND MOLD FLASH.

	MILLIMETERS	
DIM	MIN	MAX
Α	0.45	0.55
A1	0.00	0.05
А3	0.13 REF	
b	0.12	0.22
D	1.00 BSC	
E	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 ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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