

NC7SZ38P5 Datasheet

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DiGi Electronics Part Number	NC7SZ38P5-DG
Manufacturer	onsemi
Aanufacturer Product Number	NC7SZ38P5
Description	IC GATE NAND 1CH 2-INP SC70-5
Detailed Description	NAND Gate IC 1 Channel Open Drain SC-70-5

https://www.DiGi-Electronics.com



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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:
NC7SZ38P5	onsemi
Series:	Product Status:
7SZ	Discontinued at Digi-Key
Logic Type:	Number of Circuits:
NAND Gate	1
Number of Inputs:	Features:
2	Open Drain
Voltage - Supply:	Current - Quiescent (Max):
1.65V ~ 5.5V	2 μΑ
Current - Output High, Low:	Input Logic Level - Low:
-, 32mA	
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
	4.3ns @ 5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 85°C	Surface Mount
Supplier Device Package:	Package / Case:
SC-70-5	5-TSSOP, SC-70-5, SOT-353
Base Product Number:	
7SZ38	

Environmental & Export classification

8542.39.0001

Ioisture Sensitivity Level (MSL):
(Unlimited)
CCN:
AR99

onsemi

TinyLogic UHS 2-Input NAND Gate, Open Drain Output NC7SZ38

Description

The NC7SZ38 is a single 2–Input NAND gate with open drain output stage from **onsemi**'s Ultra–High Speed Series of TinyLogic. The device is fabricated with advanced CMOS technology to achieve ultra–high speed with high output drive while maintaining low static power dissipation over a very broad V_{CC} operating range. The device is specified to operate over the 1.65 V to 5.5 V V_{CC} range. The inputs and output are high impedance when V_{CC} is 0 V. Inputs tolerate voltages up to 5.5 V, independent of V_{CC} when in the high impedance state. The open drain output stage tolerates voltages up to 6 V independent of V_{CC} when in the high impedance state.

Features

- Ultra-High Speed: $t_{PD} = 2.2 \text{ ns}$ (Typical) into 50 pF at 5 V V_{CC}
- Open Drain Output Stage for OR Tied Applications
- High Output Sink Drive: ±24 mA at 3 V V_{CC}
- Broad V_{CC} Operating Range: 1.65 V to 5.5 V
- Matches Performance of LCX Operated at 3.3 V V_{CC}
- Power Down High-Impedance Inputs / Outputs
- Over-Voltage Tolerance Inputs Facilitate 5 V to 3 V Translation
- Proprietary Noise / EMI Reduction Circuitry
- Ultra-Small MicroPakTM Packages
- Space-Saving SOT23-5, SC-74A and SC-88A Packages
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

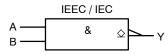
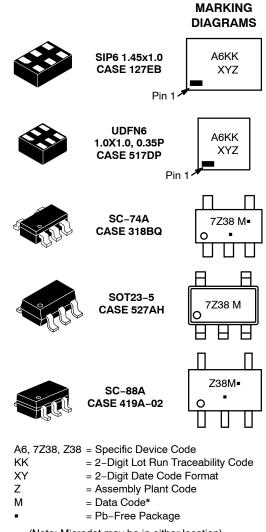


Figure 1. Logic Symbol



(Note: Microdot may be in either location)

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

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 5 of this data sheet. NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 5.

Pin Configurations

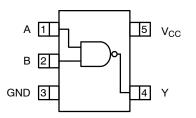


Figure 2. SOT23-5, SC-88A and SC-74A (Top View)

PIN DEFINITIONS

Pin # SC-88A / SC-74A/ SOT23-5	Pin # MicroPak	Name	Description
1	1	А	Input
2	2	В	Input
3	3	GND	Ground
4	4	Y	Output
5	6	V _{CC}	Supply Voltage
	5	NC	No Connect

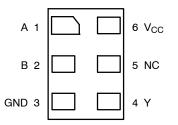


Figure 3. MicroPak (Top Through View)

FUNCTION TABLE

Inp	Output	
А	В	Y
L	L	*H
L	Н	*H
н	L	*H
Н	Н	L

H = HIGH Logic Level L = LOW Logic Level *H = High Impedance Output State, Open Drain



ABSOLUTE MAXIMUM RATINGS

Symbol	Paramete	Min	Мах	Unit	
V _{CC}	Supply Voltage	Supply Voltage			V
V _{IN}	DC Input Voltage		-0.5	6.5	V
V _{OUT}	DC Output Voltage		-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-	-50	mA
Ι _{ΟΚ}	DC Output Diode Current	V _{OUT} < 0 V	-	-50	mA
I _{OUT}	DC Output Current		-	±50	mA
$I_{CC} \text{ or } I_{GND}$	DC V _{CC} or Ground Current	-	±50	mA	
T _{STG}	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under Bias		-	+150	°C
ΤL	Junction Lead Temperature (Solderin	g, 10 Seconds)	-	+260	°C
PD	Power Dissipation in Still Air	SC-74A / SOT23-5	-	390	mW
		SC-88A	-	332	
	MicroPak-6		-	812	
		MicroPak2™–6	_	812	
ESD	ESD Human Body Model, JEDEC: JESD22-A114		-	4000	V
	Charge Device Model, JEDEC: JESD	022-C101	-	2000	

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.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Conditions	Min	Мах	Unit
V _{CC}	Supply Voltage Operating		1.65	5.5	V
	Supply Voltage Data Retention		1.50	5.5	
V _{IN}	Input Voltage		0	5.5	V
V _{OUT}	Output Voltage		0	5.5	V
T _A	Operating Temperature		-40	+85	°C
t _r , t _f	Input Rise and Fall Times	V_{CC} = 1.8 V, 2.5 V ±0.2 V	0	20	ns/V
		V_{CC} = 3.3 V ±0.3 V	0	10	
		$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$	0	5	
θ_{JA}	Thermal Resistance	SC-74A / SOT23-5	-	320	°C/W
		SC-88A	-	377	
		MicroPak-6	-	154	1
		MicroPak2-6	-	154	

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. Unused inputs must be held HIGH or LOW. They may not float.



DC ELECTICAL CHARACTERISTICS

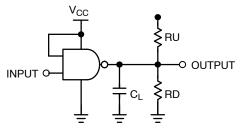
				Τ,	م = +25 °	°C	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
VIH	HIGH Level Input Voltage	1.65 to 1.95		$0.65 V_{CC}$	-	-	0.65 V _{CC}	-	V
		2.30 to 5.50		0.70 V _{CC}	-	-	0.70 V _{CC}	-	
V _{IL}	LOW Level Input Voltage	1.65 to 1.95		-	-	$0.35 V_{CC}$	-	$0.35 V_{CC}$	V
		2.30 to 5.50		-	-	0.30 V _{CC}	-	0.30 V _{CC}	
I _{LKG}	HIGH Level Output Leakage	5.50	$V_{IN} = V_{IL},$ $V_{OUT} = V_{CC}$ or GND	-	-	±5	-	±10	μΑ
V _{OL}	LOW Level Output Voltage	1.65	$V_{IN} = V_{IH} \text{ or } V_{IL},$	-	0.00	0.10	-	0.10	V
		1.80	l _{OL} = 100 μA	-	0.00	0.10	-	0.10	
		2.30	-	0.00	0.10	-	0.10		
		3.00		-	0.00	0.10	-	0.10	
		4.50		-	0.00	0.10	_	0.10	
		1.65	I _{OL} = 4 mA	-	0.80	0.24	-	0.24	
		2.30	I _{OL} = 8 mA	-	0.10	0.30	-	0.30	
		3.00	I _{OL} = 16 mA	-	0.15	0.40	-	0.40	
		3.00	I _{OL} = 24 mA	-	0.22	0.55	-	0.55	
		4.50	I _{OL} = 32 mA	-	0.22	0.55	-	0.55	
I _{IN}	Input Leakage Current	5.50	V _{IN} = 5.5 V, GND	-	-	±1	_	±10	μA
I _{OFF}	Power Off Leakage Current	0	V_{IN} or V_{OUT} = 5.5 V	-	-	1	-	10	μA
I _{CC}	Quiescent Supply Current	5.50	V _{IN} = 5.5 V, GND	-	-	2	-	20	μA

AC ELECTRICAL CHARACTERISTICS

					Γ _A = +25°C	;	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
t _{PZL}	Propagation Delay	1.65	$C_{L} = 50 \text{ pF},$	-	6.5	12.7	-	13.2	ns
	(Figure 4, 5)	1.80	RU = 500 Ω, RD = 500 Ω,	-	5.4	10.5	-	11.0	
		2.50 ±0.20	$V_{IN} = 2 \cdot V_{CC}$	-	3.5	7.0	-	7.5	
		3.30 ± 0.30		-	2.8	5.0	-	5.2	
		5.00 ±0.50		-	2.2	4.3	-	4.5	
t _{PLZ}		1.65	$C_{L} = 50 \text{ pF},$	-	5.5	12.7	-	13.2	ns
		1.80	RU = 500 Ω, RD = 500 Ω,	-	4.6	10.5	-	11.0	
		2.50 ±0.20	$V_{IN} = 2 \cdot V_{CC}$	-	3.0	7.0	-	7.5	
		3.30 ±0.30		-	2.1	5.0	-	5.2	
		5.00 ±0.50		-	1.3	4.3	-	4.5	
C _{IN}	Input Capacitance	0.00		-	4.0	-	-	-	pF
C _{OUT}	Output Capacitance	0.00		-	5.0	-	-	-	pF
C _{PD}	Power Dissipation Capacitance	3.30		-	5.1	-	-	-	pF
	(Note 2) (Figure 6)	5.00	1	-	7.3	-	-	-	

 C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression: $I_{CCD} = (C_{PD}) (V_{CC}) (f_{IN}) + (I_{CC} static).$

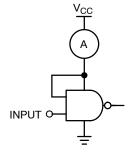




NOTE:

3. CL includes load and stray capacitance. Input PRR = 10 MHz $t_{\rm w}$ = 500 ns.





NOTE:

4. Input = AC Waveform; $t_r = t_f = 1.8$ ns; PRR = 10 MHz; Duty Cycle = 50%.

Figure 6. Test Circuit

DEVICE ORDERING INFORMATION

Device	Top Mark	Packages	Shipping [†]
NC7SZ38M5X	7Z38	SC-74A	3000 / Tape & Reel
NC7SZ38P5X	Z38	SC-88A	3000 / Tape & Reel
NC7SZ38L6X	A6	SIP6, MicroPak	5000 / Tape & Reel
NC7SZ38FHX	A6	UDFN6, MicroPak2	5000 / Tape & Reel

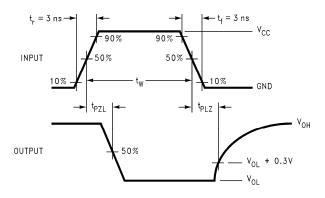
DISCONTINUED (Note 5)

NC7SZ38M5X-L22090	7Z38	SOT23–5	3000 / Tape & Reel
NC7SZ38P5X-L22057	Z38	SC-88A	3000 / Tape & Reel
NC7SZ38L6X-L22175	A6	SIP6, MicroPak	5000 / Tape & Reel
NC7SZ38FHX-L22175	A6	UDFN6, MicroPak2	5000 / 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.

5. **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on <u>www.onsemi.com</u>.

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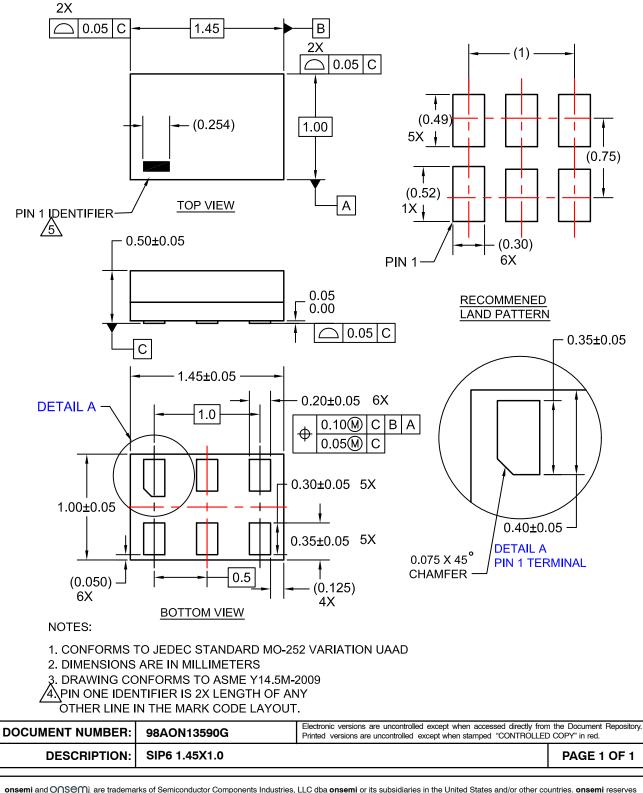




PACKAGE DIMENSIONS

SIP6 1.45X1.0 CASE 127EB ISSUE O

DATE 31 AUG 2016



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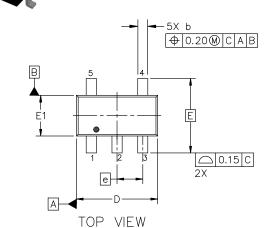
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MECHANICAL CASE OUTLINE

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= -

= 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.

C

XXX

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DETAIL SCALE 2:1 (A2)

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L2 GAUGE

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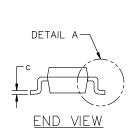
"A"

SEATING

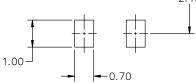
PLANE

NOTES:

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



LAGELD	U.I.J FLK 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			
Г 7					
2.40					
		2.40	,		



0.95-

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 Reposit 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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PACKAGE DIMENSIONS



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

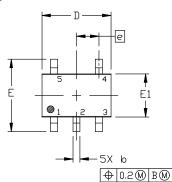
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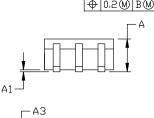
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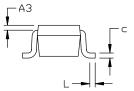
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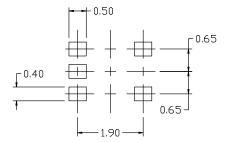
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DATE 11 APR 2023









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	5.50
E	2.00	2.10	5.50
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)

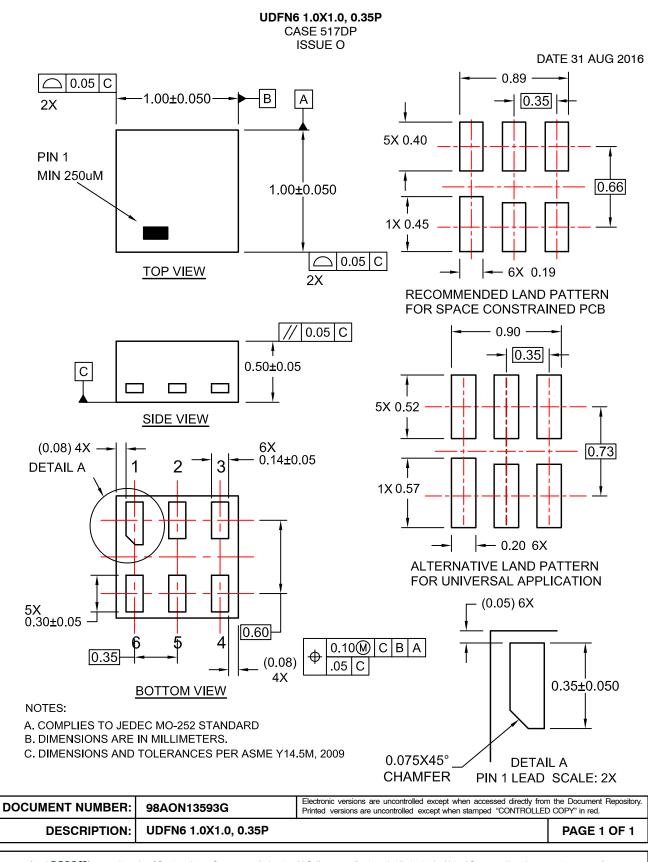
DESCRIPTION:	SC-88A (SC-70-	5/SOT-353)			PAGE 1 OF 1
DOCUMENT NUMBER:	98ASB42984B			ot when accessed directly from when stamped "CONTROLLED	
4. COLLECTOR 5. COLLECTOR STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE	4. COLLECTOR 5. CATHODE STYLE 7: PIN 1. BASE 2. EMITTER 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	ΡE

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

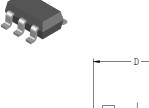


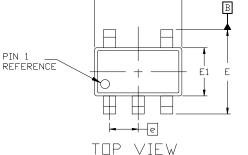
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PACKAGE DIMENSIONS

DATE 09 JUN 2021

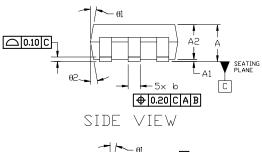


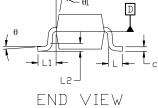


NDTES:

A

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 19894
- CONTROLLING DIMENSION: MILLIMETERS 2.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, 4. OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.25 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM D.
- DIMENSION 'b' DOES NOT INCLUDE DAMBAR PROTRUSION. 5. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE 'b' DIMENSION AT MAXIMUM MATERIAL CONDITION. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN 0.07mm.





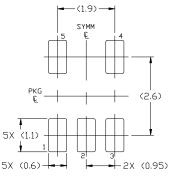
GENERIC **MARKING DIAGRAM***



XXX = Specific Device Code = Date Code М

*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.

	MILLIMETERS		
DIM	MIN.	NDM.	MAX.
Α	0.90	_	1.45
A1	0.00	—	0.15
A2	0.90	1.15	1.30
b	0.30	—	0.50
С	0.08	_	0.22
D	2.90 BSC		
E	2.80 BSC		
E1	1.60 BSC		
е	0.95 BSC		
L	0.30	0.45	0.60
L1	0.60 REF		
L2	0.25 REF		
θ	0*	4°	8*
01	0*	10°	15°
θ 2	0°	10°	15°



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.

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