SCLS347K - MAY 1996 - REVISED JULY 2003

- Inputs Are TTL-Voltage Compatible
- Latch-Up Performance Exceeds 250 mA Per JESD 17

description/ordering information

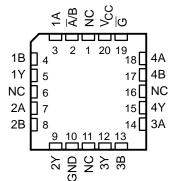
These quadruple 2-line to 1-line data selectors/multiplexers are designed for 4.5-V to 5.5-V V_{CC} operation.

The 'AHCT157 devices feature a common strobe (\overline{G}) input. When the strobe is high, all outputs are low. When the strobe is low, a 4-bit word is selected from one of two sources and is routed to the four outputs. The devices provide true data.

SN54AHCT157 ... J OR W PACKAGE SN74AHCT157 ... D, DB, DGV, N, NS, OR PW PACKAGE (TOP VIEW)

	(101	vic,	
Ā/B 1A 1B 1Y 2A 2B 2Y GND	[] 2 [] 3	14 13 12 11] V _{CC}] G] 4A] 4B] 4Y] 3A] 3B] 3Y

SN54AHCT157 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

ORDERING INFORMATION

TA	PACKA	GE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74AHCT157N	SN74AHCT157N
	SOIC - D	Tube	SN74AHCT157D	AHCT157
-40°C to 85°C	3010 - 0	Tape and reel	SN74AHCT157DR	Anorisi
	SOP – NS	Tape and reel	SN74AHCT157NSR	AHCT157
40 0 10 00 0	SSOP – DB	Tape and reel	SN74AHCT157DBR	HB157
	TSSOP – PW	Tube	SN74AHCT157PW	HB157
	1330F - FW	Tape and reel	SN74AHCT157PWR	
	TVSOP – DGV	Tape and reel	SN74AHCT157DGVR	HB157
	CDIP – J	Tube	SNJ54AHCT157J	SNJ54AHCT157J
–55°C to 125°C	CFP – W	Tube	SNJ54AHCT157W	SNJ54AHCT157W
	LCCC – FK	Tube	SNJ54AHCT157K	SNJ54AHCT157FK

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



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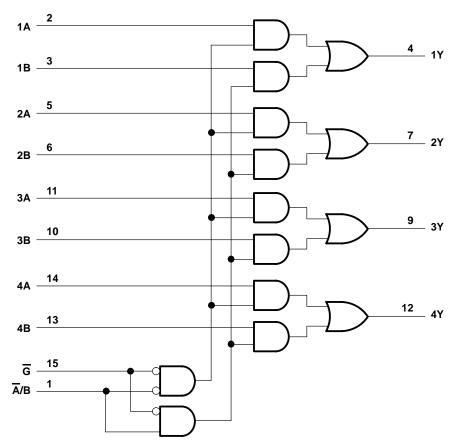


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SCLS347K - MAY 1996 - REVISED JULY 2003

	FUNCTION TABLE											
	INPU	OUTPUT										
G	Ā/B	Α	В	Y								
Н	Х	Х	Х	L								
L	L	L	х	L								
L	L	Н	х	Н								
L	Н	Х	L	L								
L	Н	Х	Н	Н								

logic diagram (positive logic)



Pin numbers shown are for the D, DB, DGV, J, N, NS, PW, and W packages.



SCLS347K - MAY 1996 - REVISED JULY 2003

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Input voltage range, V _I (see Note 1) Output voltage range, V _O (see Note 1) Input clamp current, I _{IK} (V _I < 0) Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CC}) Continuous output current, I _O (V _O = 0 to V _{CC}) . Continuous current through V _{CC} or GND Package thermal impedance, θ_{JA} (see Note 2): I	-0.5 V to 7 V -0.5 V to 7 V -0.5 V to 7 V -0.5 V to V _{CC} + 0.5 V -20 mA ±20 mA ±20 mA ±25 mA ±50 mA D package 73°C/W DB package 82°C/W DGV package 120°C/W N package 67°C/W NS package 64°C/W PW package 108°C/W

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions (see Note 3)

		SN54AH	CT157	SN74AH	CT157	UNIT
		MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage	4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2	N	2		V
VIL	Low-level input voltage		0.8		0.8	V
VI	Input voltage	0	5.5	0	5.5	V
Vo	Output voltage	0	Vcc	0	VCC	V
ЮН	High-level output current	DNG	-8		-8	mA
IOL	Low-level output current	201	8		8	mA
$\Delta t/\Delta v$	Input transition rise or fall time	9	20		20	ns/V
Т _А	Operating free-air temperature	-55	125	-40	85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.



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electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS	vcc	Τ,	λ = 25°C	;	SN54AHCT157		SN74AHCT157		UNIT
FARAWETER	TEST CONDITIONS		MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
N.	I _{OH} = -50 μA	4.5.1	4.4	4.5		4.4		4.4		
VOH	I _{OH} = -8 mA	4.5 V	3.94			3.8	Ņ	3.8		V
Max	I _{OL} = 50 μA	4.5 V			0.1		0.1		0.1	V
V _{OL}	I _{OL} = 8 mA	4.5 V			0.36		0.44		0.44	V
lj	$V_{I} = 5.5 V \text{ or GND}$	0 V to 5.5 V			±0.1	4	±1*		±1	μA
ICC	$V_{I} = V_{CC} \text{ or GND}, I_{O} = 0$	5.5 V			2	nc	20		20	μA
∆lcc‡	One input at 3.4 V, Other inputs at V_{CC} or GND	5.5 V			1.35	Pho 04d	1.5		1.5	mA
Ci	V _I = V _{CC} or GND	5 V		2	10				10	pF

* On products compliant to MIL-PRF-38535, this parameter is not production tested at $V_{CC} = 0$ V.

[†] This is the increase in supply current for each input at one of the specified TTL voltage levels rather than 0 V or V_{CC}.

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	то	LOAD	Тд	∖ = 25°C	;	SN54AH	ICT157	SN74AHCT157		UNIT	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX		
^t PLH	A or B	Y	C _I = 15 pF		4.1**	6.4**	1**	7.5**	1	7.5		
^t PHL	AUB	T			4.1**	6.4**	1**	7.5**	1	7.5	ns	
^t PLH	Ā/B	Y	C _I = 15 pF		5.3**	8.1**	1**	9.5**	1	9.5		
^t PHL	A/B				5.3**	8.1**	1**	9.5**	1	9.5 ns		
^t PLH	G	Y	C _I = 15 pF		5.6**	8.6**	1**	10**	1	10	ns	
^t PHL	G	Т	0L = 15 pr		5.6**	8.6**	1**	10**	1	10	10	
^t PLH	A or B	Y	$C_{1} = 50 \text{ pF}$		5.6	8.7	0	10.8	1	9.8	ns	
^t PHL	AUB	'	C _L = 50 pF	CL = 50 pr		5.6	8.7	20	10.8	1	9.8	115
^t PLH	Ā/B	Y	$C_{\rm L} = 50 \rm pF$		6.8	10.4	<i>x</i> 1	13.2	1	12	-	
^t PLH	A/B	r r	C _L = 50 pF		6.8	10.4	1	13.2	1	12	ns	
^t PLH	G	Y	$C_{1} = 50 \text{ pF}$		7.1	11	1	13.5	1	12		
^t PHL	G	r r	C _L = 50 pF		7.1	11	1	13.5	1	12	ns	

** On products compliant to MIL-PRF-38535, this parameter is not production tested.

noise characteristics V_{CC} = 5 V, C_L = 50 pF, T_A = 25°C (see Note 4)

	PARAMETER	SN7	57	UNIT	
	FARAMETER	MIN	TYP	MAX	UNIT
VOL(P)	Quiet output, maximum dynamic V _{OL}		0.4	0.8	V
VOL(V)	Quiet output, minimum dynamic V _{OL}		-0.4	-0.8	V
VOH(V)	Quiet output, minimum dynamic V _{OH}		4.8		V
V _{IH(D)}	High-level dynamic input voltage	2			V
V _{IL(D)}	Low-level dynamic input voltage			0.8	V

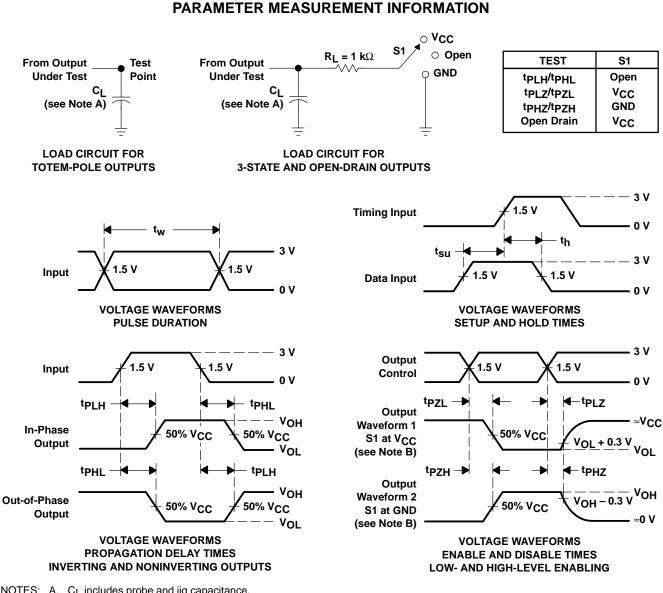
NOTE 4: Characteristics are for surface-mount packages only.

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SCLS347K - MAY 1996 - REVISED JULY 2003

ope	operating characteristics, V _{CC} = 5 V, T _A = 25°C											
	PARAMETER	TEST CO	ONDITIONS	TYP	UNIT							
Cpd	Power dissipation capacitance	No load,	f = 1 MHz	11	pF							



NOTES: A. CL includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_Q = 50 Ω , t_f \leq 3 ns, t_f \leq 3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
							(6)				
SN74AHCT157D	ACTIVE	SOIC	D	16	40	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157DBR	ACTIVE	SSOP	DB	16	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157DG4	ACTIVE	SOIC	D	16	40	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157DGVR	ACTIVE	TVSOP	DGV	16	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157DR	ACTIVE	SOIC	D	16	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHCT157	Samples
SN74AHCT157N	ACTIVE	PDIP	Ν	16	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74AHCT157N	Samples
SN74AHCT157PW	ACTIVE	TSSOP	PW	16	90	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples
SN74AHCT157PWR	ACTIVE	TSSOP	PW	16	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HB157	Samples

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

⁽³⁾ MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

⁽⁴⁾ There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

⁽⁵⁾ Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.



PACKAGE OPTION ADDENDUM

⁽⁶⁾ Lead finish/Ball material - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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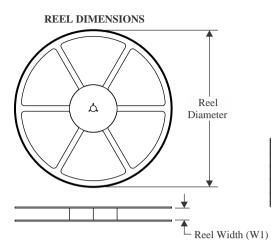


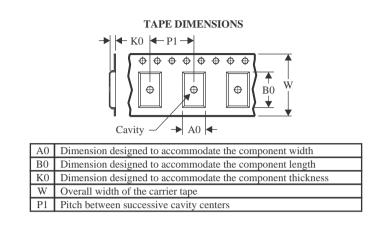
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*All dimensions are nominal

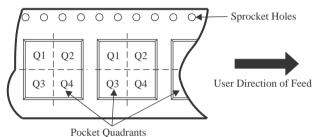
STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



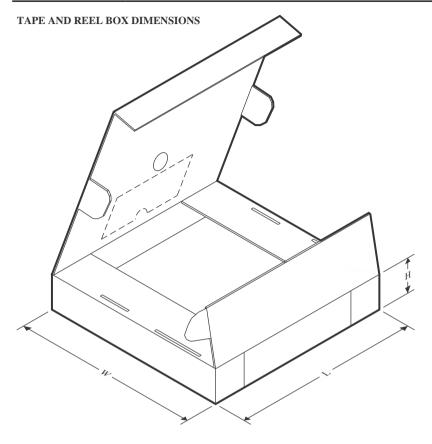
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AHCT157DBR	SSOP	DB	16	2000	330.0	16.4	8.35	6.6	2.4	12.0	16.0	Q1
SN74AHCT157DGVR	TVSOP	DGV	16	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74AHCT157DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74AHCT157PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1



www.ti.com

PACKAGE MATERIALS INFORMATION

3-Jun-2022



*All dimensions are nominal

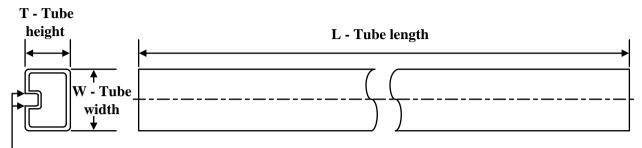
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHCT157DBR	SSOP	DB	16	2000	356.0	356.0	35.0
SN74AHCT157DGVR	TVSOP	DGV	16	2000	356.0	356.0	35.0
SN74AHCT157DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74AHCT157PWR	TSSOP	PW	16	2000	356.0	356.0	35.0

TEXAS INSTRUMENTS

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3-Jun-2022

TUBE



- B - Alignment groove width

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SN74AHCT157D	D	SOIC	16	40	507	8	3940	4.32
SN74AHCT157DG4	D	SOIC	16	40	507	8	3940	4.32
SN74AHCT157N	N	PDIP	16	25	506	13.97	11230	4.32
SN74AHCT157N	N	PDIP	16	25	506	13.97	11230	4.32
SN74AHCT157PW	PW	TSSOP	16	90	530	10.2	3600	3.5

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

DGV (R-PDSO-G**)

24 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.
- D. Falls within JEDEC: 24/48 Pins MO-153

14/16/20/56 Pins – MO-194



D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



4211283-4/E 08/12

D (R-PDSO-G16) PLASTIC SMALL OUTLINE Stencil Openings (Note D) Example Board Layout (Note C) –16x0,55 -14x1,27 -14x1,27 16x1,50 5,40 5.40 Example Non Soldermask Defined Pad Example Pad Geometry (See Note C) 0,60 .55 Example 1. Solder Mask Opening (See Note E) -0,07 All Around

NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



PW0016A



PACKAGE OUTLINE

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



PW0016A

EXAMPLE BOARD LAYOUT

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



PW0016A

EXAMPLE STENCIL DESIGN

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

9. Board assembly site may have different recommendations for stencil design.



^{8.} Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

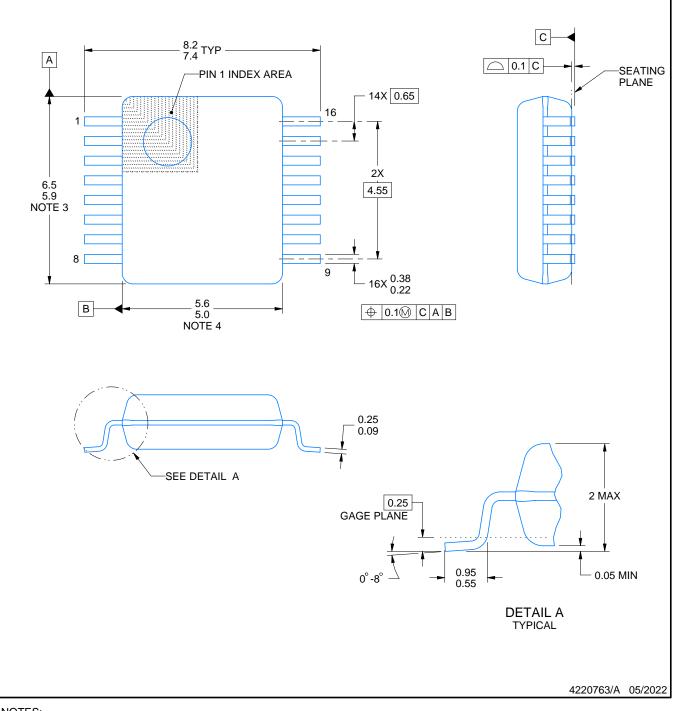
DB0016A



PACKAGE OUTLINE

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not

- exceed 0.15 mm per side. 4. Reference JEDEC registration MO-150.



DB0016A

EXAMPLE BOARD LAYOUT

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



DB0016A

EXAMPLE STENCIL DESIGN

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

8. Board assembly site may have different recommendations for stencil design.



^{7.} Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

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