







SN54ACT573, SN74ACT573

SCAS538E - OCTOBER 1995 - REVISED AUGUST 2023

SNx4ACT573 Octal D-Type Transparent Latches With 3-State Outputs

1 Features

- Operation of 4.5-V to 5.5-V V_{CC}
- Inputs accept voltages to 5.5 V
- Max t_{pd} of 9.5 ns at 5 V
- Inputs are TTL-voltage compatible

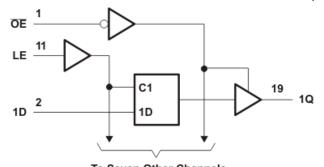
2 Description

These 8-bit latches feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. The devices are particularly suitable for implementing buffer registers, I/O ports, bus drivers, and working registers.

Device Information

PART NUMBER	PACKAGE ¹	BODY SIZE ²
	N (PDIP, 20)	24.33 mm × 6.35 mm
	NS (SOP, 20)	12.6 mm × 5.3 mm
SNx4ACT573	DW (SOIC, 20)	12.8 mm × 7.5 mm
	DB (SSOP, 20)	7.2 mm × 5.3 mm
	PW (TSSOP, 20)	6.5 mm × 4.4 mm

- 1. For all available packages, see the package option addendum at the end of the data sheet.
- The package size (length × width) is a nominal value and includes pins, where applicable.



To Seven Other Channels **Logic Diagram (Positive Logic)**



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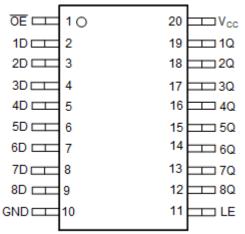
3 Revision History

Changes from Revision D (February 2012) to Revision E (August 2023)

Page



4 Pin Configuration and Functions



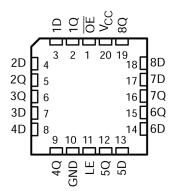


Figure 4-2. SN54ACT573 FK Package (Top View)

Figure 4-1. SN54ACT573 J or W Package, SN74ACT573 DB, DW, N, NS, or PW Package (Top View)

Table 4-1. Pin Functions

	PIN	- I/O ¹	DESCRIPTION DESCRIPTION
NO.	NAME		DESCRIPTION
1	ŌĒ	I	Output enable
2	1D	I	1D input
3	2D	I	2D input
4	3D	I	3D input
5	4D	I	4D input
6	5D	I	5D input
7	6D	I	6D input
8	7D	I	7D input
9	8D	I	8D input
10	GND	_	Ground
11	LE	I	Latch enable input
12	8Q	0	8Q output
13	7Q	0	7Q output
14	6Q	0	6Q output
15	5Q	0	5Q output
16	4Q	0	4Q output
17	3Q	0	3Q output
18	2Q	0	2Q output
19	1Q	0	1Q output
20	V _{CC}	_	Power pin

1. I = Input, O = Output, I/O = Input or Output, G = Ground, P = Power.



5 Specifications

5.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)1

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	7	V
V _I ⁽¹⁾	Input voltage range		-0.5	V _{CC} + 0.5	V
V _O ⁽¹⁾	Output voltage range		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	$(V_I < 0 \text{ or } V_I > V_{CC})$		±20	mA
I _{OK}	Output clamp current	$(V_O < 0 \text{ or } V_O > V_{CC})$		±20	mA
Io	Continuous output current	(V _O = 0 to V _{CC})		±50	mA
	Continuous current through, V _{C0}	or GND		±200	mA
T _{stg}	Storage temperature range		-65	150	°C

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

5.2 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)1

		SN54ACT573		SN74ACT	T573	UNIT
		MIN	MAX	MIN	MAX	UNII
V _{CC}	Supply voltage	4.5	5.5	4.5	5.5	V
V _{IH}	High-level input voltage	2		2		V
V _{IL}	Low-level input voltage		0.8		0.8	V
VI	Input voltage	0	V _{CC}	0	V _{CC}	V
Vo	Output voltage	0	V _{CC}	0	V _{CC}	V
I _{OH}	High-level output current		-24		-24	mA
I _{OL}	Low-level output current		24		24	mA
Δt/Δν	Input transition rise or fall rate		8		8	ns/V
T _A	Operating free-air temperature	-55	125	-40	85	°C

5.3 Thermal Information

			SN74ACT573					
		DW (SOIC)	DB (SSOP)	N (PDIP)	NS (SO)	PW (TSSOP)	UNIT	
THERMAL METRIC		20 PINS	20 PINS	20 PINS	20 PINS	20 PINS		
$R_{\theta JA}$	Junction-to-ambient thermal resistance ⁽¹⁾	58	70	69	60	83	°C/W	

⁽¹⁾ For more information about traditional and new thermal metrics, see the Semiconductor and IC Package Thermal Metrics application report.



5.4 Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	\ \ <u>\</u>	T	λ = 25°C		SN54AC	T573	SN74ACT573		UNIT
PARAMETER	TEST CONDITIONS	V _{CC}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII
	I _{OH} = –50 μA	4.5 V	4.4	4.49		4.4		4.4		
	10H = =30 HA	5.5 V	5.4	5.49		5.4		5.4		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 - 24 mA	4.5 V	3.86			3.7		3.76		V
V _{OH}	I _{OH} = -24 mA	5.5 V	4.86			4.7		4.76		V
	I _{OH} = -50 mA ⁽¹⁾	5.5 V				3.85				
	I _{OH} = -75 mA ⁽¹⁾	5.5 V						3.85		
	I _{OL} = 50 μA	4.5 V			0.1		0.1		0.1	
	ΙΟΙ - 50 μΑ	5.5 V			0.1		0.1		0.1	
V	1 - 24 mA	4.5 V			0.36		0.44		0.44	V
V _{OL}	I _{OL} = 24 mA	5.5 V			0.36		0.44		0.44	V
	I _{OL} = 50 mA ⁽¹⁾	5.5 V					1.65			
	I _{OL} = 75 mA ⁽¹⁾	5.5 V							1.65	
I _{OZ}	V _O = V _{CC} or GND	5.5 V			±0.25		±5		±2.5	μA
Iı	V _I = V _{CC} or GND	5.5 V			±0.1		±1		±1	μA
I _{cc}	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V	-		4		80		40	μA
ΔI _{CC} (2)	One input at 3.4 V, Other inputs at GND or V _{CC}	5.5 V		0.6			1.5		1.5	mA
C _i	V _I = V _{CC} or GND	5 V		5						pF

⁽¹⁾ Not more than one output should be tested at a time, and the duration of the test should not exceed 2 ms.

5.5 Timing Requirements

over operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

		T _A = 25°C		SN54ACT573		SN74ACT573		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	UNII
t _w	Pulse duration, LE high	3.5		5		4		ns
t _{su}	Setup time, data before LE↓	3		4.5		3.5		ns
t _h	Hold time, data after LE↓	0		1		0		ns

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



5.6 Switching Characteristics

over operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Load Circuit and Voltage Waveforms)

PARAMETER	FROM	то	T	T _A = 25°C		SN54ACT573		SN74ACT573		UNIT
PARAMETER	(INPUT)	(OUTPUT)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNII
t _{PLH}	D	Q	2.5	6	10.5	1.5	13.5	2	12	no
t _{PHL}		Q	2.5	6	10.5	1.5	13.5	2	12	ns
t _{PLH}	LE	Q	3	6	10.5	1.5	13	2.5	12	ns
t _{PHL}		Q	2.5	5.5	9.5	1.5	12	2	10.5	115
t _{PZH}	OF	0	2	5.5	10	1.5	11.5	1.5	11	
t _{PZL}	- OE Q	1.5	5.5	9.5	1.5	11	1.5	10.5	ns	
t _{PHZ}	OF	0	2.5	6.5	11	1.5	13.5	1.5	12.5	no
t _{PLZ}	ŌĒ	Q	1.5	5	8.5	1.5	10.5	1	9.5	ns

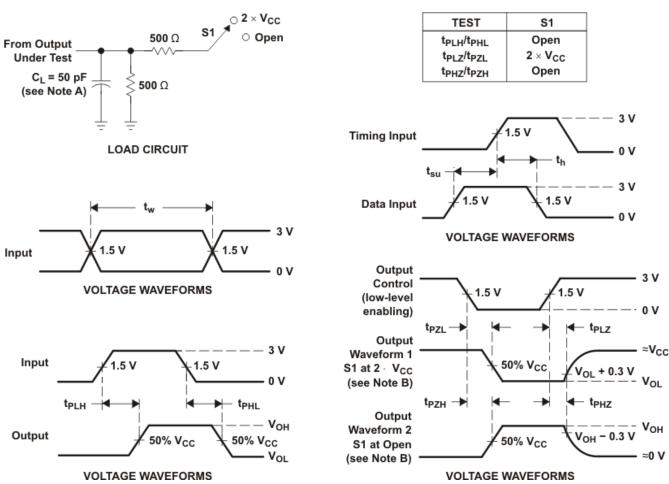
5.7 Operating Characteristics

 $V_{CC} = 5 \text{ V}, T_A = 25^{\circ}\text{C}$

PARAMETER		TEST CO	ONDITIONS	TYP	UNIT
C_{pd}	Power dissipation capacitance	C _L = 50 pF,	f = 1 MHz	25	pF



6 Parameter Measurement Information



- A. C_L 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 ≤ 1 MHz, Z_O = 50 Ω, t_t ≤ 2.5 ns, t_f ≤ 2.5 ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 6-1. Load Circuit and Voltage Waveforms



7 Detailed Description

7.1 Overview

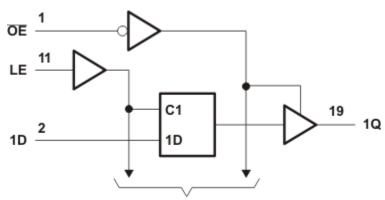
The eight latches are D-type transparent latches. When the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels set up at the D inputs.

A buffered output-enable (\overline{OE}) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines in a bus-organized system without need for interface or pullup components.

 $\overline{\text{OE}}$ does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

7.2 Functional Block Diagram



To Seven Other Channels

Figure 7-1. Logic Diagram (Positive Logic)

7.3 Device Functional Modes

Function Table (Each Latch)

	INPUTS				
ŌĒ	LE	D	Q		
L	Н	Н	Н		
L	Н	L	L		
L	L	Χ	Q_0		
Н	X	Χ	Z		



8 Device and Documentation Support

8.1 Documentation Support (Analog)

8.1.1 Related Documentation

The table below lists quick access links. Categories include technical documents, support and community resources, tools and software, and quick access to sample or buy.

Table 8-1. Related Links

PARTS	PRODUCT FOLDER	SAMPLE & BUY	TECHNICAL DOCUMENTS	TOOLS & SOFTWARE	SUPPORT & COMMUNITY	
SN54ACT573	Click here	Click here	Click here	Click here	Click here	
SN74ACT573	Click here	Click here	Click here	Click here	Click here	

8.2 Receiving Notification of Documentation Updates

To receive notification of documentation updates, navigate to the device product folder on ti.com. Click on *Subscribe to updates* to register and receive a weekly digest of any product information that has changed. For change details, review the revision history included in any revised document.

8.3 Support Resources

TI E2E[™] support forums are an engineer's go-to source for fast, verified answers and design help — straight from the experts. Search existing answers or ask your own question to get the quick design help you need.

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8.4 Trademarks

TI E2E[™] is a trademark of Texas Instruments.

All trademarks are the property of their respective owners.

8.5 Glossary

TI Glossary This glossary lists and explains terms, acronyms, and definitions.



9 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

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11-May-2023

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-87664012A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 87664012A SNJ54ACT 573FK	Samples
5962-8766401RA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8766401RA SNJ54ACT573J	Samples
5962-8766401SA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8766401SA SNJ54ACT573W	Samples
SN74ACT573DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD573	Samples
SN74ACT573DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT573	Samples
SN74ACT573N	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ACT573N	Samples
SN74ACT573NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT573	Samples
SN74ACT573PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD573	Samples
SNJ54ACT573FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 87664012A SNJ54ACT 573FK	Samples
SNJ54ACT573J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8766401RA SNJ54ACT573J	Samples
SNJ54ACT573W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8766401SA SNJ54ACT573W	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".

PACKAGE OPTION ADDENDUM

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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.

(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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OTHER QUALIFIED VERSIONS OF SN54ACT573, SN74ACT573:

Catalog: SN74ACT573

Military: SN54ACT573

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION



TAPE DIMENSIONS + K0 - P1 - B0 W Cavity - A0 -

A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

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
SN74ACT573DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ACT573DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ACT573NSR	so	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ACT573PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1



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*All dimensions are nominal

7 til dilliononono are memiliar							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ACT573DBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ACT573DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ACT573NSR	so	NS	20	2000	367.0	367.0	45.0
SN74ACT573PWR	TSSOP	PW	20	2000	356.0	356.0	35.0

PACKAGE MATERIALS INFORMATION

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TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-87664012A	FK	LCCC	20	1	506.98	12.06	2030	NA
5962-8766401SA	W	CFP	20	1	506.98	26.16	6220	NA
SN74ACT573N	N	PDIP	20	20	506	13.97	11230	4.32
SNJ54ACT573FK	FK	LCCC	20	1	506.98	12.06	2030	NA
SNJ54ACT573W	W	CFP	20	1	506.98	26.16	6220	NA

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.

 D. Index point is provided on cap for terminal identification only.

 E. Falls within Mil—Std 1835 GDFP2—F20







- 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.





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.





NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.







- 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-150.





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.





NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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.



14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

8.89 x 8.89, 1.27 mm pitch

LEADLESS CERAMIC CHIP CARRIER

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.





SOIC



- 1. All linear dimensions are in millimeters. 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 0.43 mm per side.
- 5. Reference JEDEC registration MS-013.



SOIC



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.



SOIC



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



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