







SN54HC259, SN74HC259 SCLS134F - DECEMBER 1982 - REVISED MARCH 2022

SNx4HC259 8-Bit Addressable Latches

1 Features

- Wide operating voltage range of 2 V to 6 V
- High-current inverting outputs drive up to 10 LSTTL loads
- Low power consumption, 80-µA max I_{CC}
- Typical t_{pd} = 14 ns
- ±4-mA output drive at 5 V
- Low input current of 1 µA max
- 8-bit parallel-out storage register performs serialto-parallel conversion with storage
- Asynchronous parallel clear
- Active-high decoder
- Enable input simplifies expansion
- Expandable for n-bit applications
- Four distinct functional modes

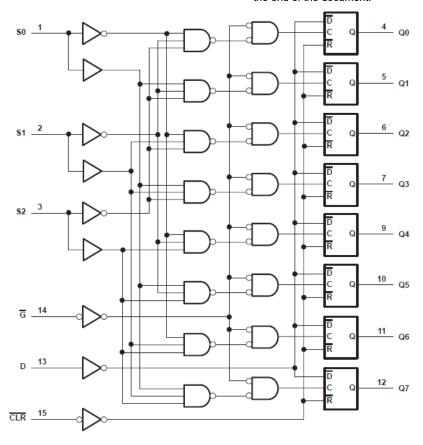
2 Description

These 8-bit addressable latches are designed for general-purpose storage applications in digital systems. Specific uses include working registers, serial-holding registers, and active-high decoders or demultiplexers. They are multifunctional devices capable of storing single-line data in addressable latches and being a 1-of-8 decoder or demultiplexer with active-high outputs.

Device Information

PART NUMBER	PACKAGE ⁽¹⁾	BODY SIZE (NOM)
SN74HC259D	SOIC (16)	9.90 mm × 3.90 mm
SN74HC259N	PDIP (16)	19.31 mm × 6.35 mm
SN74HC259NS	SO (16)	6.20 mm × 5.30 mm
SN74HC259PW	TSSOP (16)	5.00 mm × 4.40 mm
SN54HC259J	CDIP (16)	24.38 mm × 6.92 mm
SNJ54HC259FK	LCCC (20)	8.89 mm × 8.45 mm

For all available packages, see the orderable addendum at the end of the document.



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

Functional Block Diagram



Table of Contents

1 Features	1	7.1 Overview	8
2 Description	1	7.2 Functional Block Diagram	8
3 Revision History		7.3 Device Functional Modes	9
4 Pin Configuration and Functions		8 Power Supply Recommendations	
5 Specifications	4	9 Layout	
5.1 Absolute Maximum Ratings		9.1 Layout Guidelines	
5.2 Recommended Operating Conditions(1)	4	10 Device and Documentation Support	11
5.3 Thermal Information	4	10.1 Receiving Notification of Documentation Updates	s 11
5.4 Electrical Characteristics	<mark>5</mark>	10.2 Support Resources	<mark>11</mark>
5.5 Timing Requirements	5	10.3 Trademarks	11
5.6 Switching Characteristics	6	10.4 Electrostatic Discharge Caution	1 1
5.7 Operating Characteristics	6	10.5 Glossary	
6 Parameter Measurement Information		11 Mechanical, Packaging, and Orderable	
7 Detailed Description		Information	1 1

3 Revision History

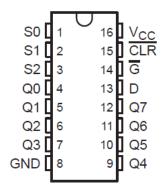
NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision E (September 2003) to Revision F (March 2022)

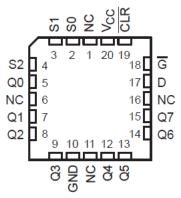
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4 Pin Configuration and Functions



J, D, N, NS, or PW Package 16-Pin CDIP, SOIC, PDIP, SO, TSSOP Top View



NC - No internal connection

FK Package 20-Pin LCCC Top View

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
I _{IK}	Input clamp current ⁽²⁾	$V_I < 0 \text{ or } V_I > V_{CC}$		±20	mA
I _{OK}	Output clamp current ⁽²⁾	$V_O < 0$ or $V_O > V_{CC}$		±20	mA
Io	Continuous output current	V _O = 0 to V _{CC}		±25	mA
	Continuous current through V _{CC} or	GND		±50	mA
TJ	Junction temperature			150	°C
T _{stg}	Storage temperature		-65	150	°C

⁽¹⁾ 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 Section 5.2 is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

5.2 Recommended Operating Conditions⁽¹⁾

			SN	54HC259		SN	74HC259		UNIT	
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT	
V _{CC}	Supply voltage		2	5	6	2	5	6	V	
1		V _{CC} = 2 V	1.5			1.5				
V_{IH}	High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V	
		V _{CC} = 6 V	4.2			4.2				
		V _{CC} = 2 V			0.5			0.5		
V_{IL}		V _{CC} = 4.5 V			1.35			1.35	V	
		V _{CC} = 6 V			1.8			1.8		
VI	Input voltage		0		V _{CC}	0		V _{CC}	V	
Vo	Output voltage		0		V _{CC}	0		V _{CC}	V	
		V _{CC} = 2 V			1000			1000		
t _t	'	V _{CC} = 4.5 V			500			500	ns	
		V _{CC} = 6 V		,	400			400		
T _A	Operating free-air temperatu	re	-55		125	-40		85	°C	

⁽¹⁾ 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.

5.3 Thermal Information

		D (SOIC)	N (PDIP)	NS (SO)	PW (TSSOP)	
THERMAL METRIC		16 PINS	16 PINS	16 PINS	16 PINS	UNIT
$R_{\theta JA}$	Junction-to-ambient thermal resistance ⁽¹⁾	73	67	64	108	°C/W

For more information about traditional and new thermal metrics, see the Semiconductor and IC package thermal metrics application report.

⁽²⁾ The input and output voltage ratings may be exceeded if the input and output current ratings are observed.



5.4 Electrical Characteristics

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

PARAMETER	TEST	V (V)	T,	_A = 25°C		SN54HC	259	SN74HC	259	UNIT
PARAMETER	CONDITIONS ⁽¹⁾	V _{CC} (V)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
		2	1.9	1.998		1.9		1.9		
	I _{OH} = -20 μA	4.5	4.4	4.499		4.4		4.4		
V_{OH}	I _{OH} = -4 mA	6	5.9	5.999		5.9		5.9		V
		4.5	3.98	4.3		3.7		3.84		
	I _{OH} = −5.2 mA	6	5.48	5.8		5.2		5.34		
		2		0.002	0.1		0.1		0.1	
	I _{OL} = 20 μA	4.5		0.001	0.1		0.1		0.1	
V_{OL}		6		0.001	0.1		0.1		0.1	V
	I _{OL} = 4 mA	4.5		0.17	0.26		0.4		0.33	
	I _{OL} = 5.2 mA	6		0.15	0.26		0.4		0.33	
I _I	$V_I = V_{CC}$ or 0	6		±0.1	±100		±1000		±1000	nA
I _{CC}	$V_1 = V_{CC} \text{ or } 0, I_0$ = 0	6			8		160		80	μA
C _i		2 to 6		3	10		10		10	pF

⁽¹⁾ $V_I = V_{IH}$ or V_{IL} , unless otherwise noted.

5.5 Timing Requirements

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

			V (A)	T _A = 25	°C	SN54HC	259	SN74HC	259	UNIT
			V _{CC} (V)	MIN	MAX	MIN	MAX	MIN	MAX	UNII
			2	80		120		100		
		CLR low	4.5	16		24		20		
t _w Pulse duration		6	14		20		17			
L _W	t _w Pulse duration		2	80		120		100		ns
		G low	4.5	16		24		20		
			6	14		20		17		
			2	75		115		95		
t _{su}	Setup time, data o	r address before G ↑	4.5	15		23		19		ns
			6	13		20		16		
			2	5		5		5		
t _h	Hold time, data or	address after G G ↑	4.5	5		5		5		ns
			6	5		5		5		



5.6 Switching Characteristics

over recommended operating free-air temperature range, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Parameter Measurement Information)

PARAMETER	FROM	то	V (V)	TA	= 25°C		SN54HC259	SN74HC259	UNIT
FARAIVIETER	(INPUT)	(OUTPUT)	V _{CC} (V)	MIN	TYP	MAX	MIN MAX	MIN MAX	UNIT
	t _{PHL} CLR		2		60	150	225	190	
t _{PHL}		Any Q	4.5		18	30	45	38	ns
			6		14	26	38	32	
			2		56	130	195	165	
	Data	Any Q	4.5		17	26	39	33	
			6		13	22	33	28	
t _{pd}	Address		2		74	200	300	250	
		Any Q	4.5		21	40	60	50	ns
			6		17	34	51	43	
			2		66	170	255	215	
	G	Any Q	4.5		20	34	51	43	
			6		16	29	43	37	
			2		28	75	110	95	
t _t		Any	4.5		8	15	22	19	ns
			6		6	13	19	16	

5.7 Operating Characteristics

T_A = 25°C

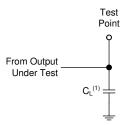
	PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance per latch	No load	33	pF

6 Parameter Measurement Information

Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_O = 50 Ω , t_t < 6 ns.

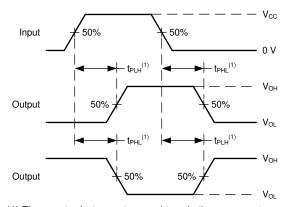
For clock inputs, f_{max} is measured when the input duty cycle is 50%.

The outputs are measured one at a time with one input transition per measurement.

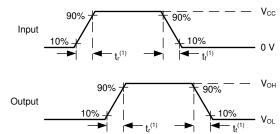


(1) C_L includes probe and test-fixture capacitance.

Figure 6-1. Load Circuit for Push-Pull Outputs



(1) The greater between t_{PLH} and t_{PHL} is the same as t_{pd} . Figure 6-2. Voltage Waveforms, Propagation Delays for Standard CMOS Inputs



(1) The greater between t_{r} and t_{f} is the same as t_{t} .

Figure 6-3. Voltage Waveforms, Input and Output Transition Times for Standard CMOS Inputs



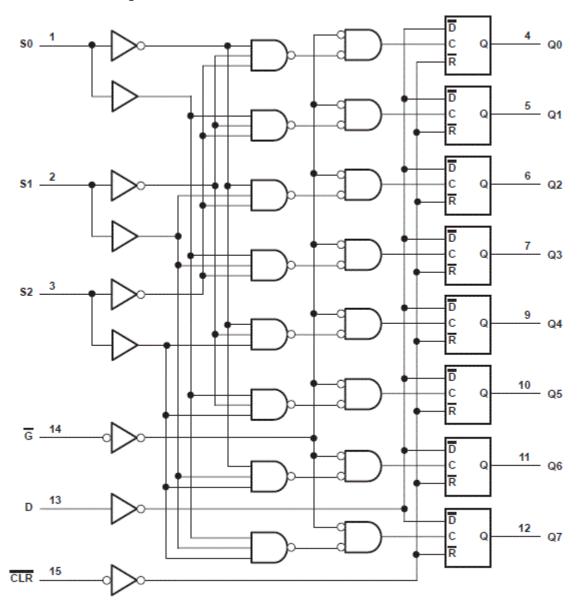
7 Detailed Description

7.1 Overview

These 8-bit addressable latches are designed for general-purpose storage applications in digital systems. Specific uses include working registers, serial-holding registers, and active-high decoders or demultiplexers. They are multifunctional devices capable of storing single-line data in eight addressable latches and being a 1-of-8 decoder or demultiplexer with active-high outputs.

Four distinct modes of operation are selectable by controlling the clear (\overline{CLR}) and enable (\overline{G}) inputs. In the addressable-latch mode, data at the data-in terminal is written into the addressed latch. The addressed latch follows the data input, with all unaddressed latches remaining in their previous states. In the memory mode, all latches remain in their previous states and are unaffected by the data or address inputs. To eliminate the possibility of entering erroneous data in the latches, \overline{G} should be held high (inactive) while the address lines are changing. In the 1-of-8 decoding or demultiplexing mode, the addressed output follows the level of the D input with all other outputs low. In the clear mode, all outputs are low and unaffected by the address and data inputs.

7.2 Functional Block Diagram



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

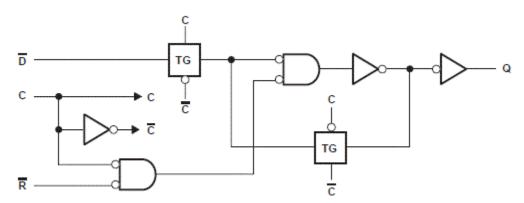


Figure 7-1. Logic Diagram, Each Internal Latch (positive logic)

7.3 Device Functional Modes

Table 7-1. Function Table

INP	UTS	OUTPUT OF	EACH OTHER	
CLR	G	ADDRESSED LATCH	OUTPUT	FUNCTION
Н	L	D	Q _{iO}	Addressable latch
Н	Н	Q _{iO}	Q _{iO}	Memory
L	L	D	L	8-line demultiplexer
L	Н	L	L	Clear

Table 7-2. Latch Selection Table

	SELECT INPUTS	1	LATCH
S2	S1	S0	ADDRESSED
L	L	L	0
L	L	Н	1
L	Н	L	2
L	Н	Н	3
Н	L	L	4
Н	L	Н	5
Н	Н	L	6
Н	Н	Н	7



8 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating located in the *Recommended Operating Conditions*. Each V_{CC} terminal should have a good bypass capacitor to prevent power disturbance. A 0.1- μ F capacitor is recommended for this device. It is acceptable to parallel multiple bypass caps to reject different frequencies of noise. The 0.1- μ F and 1- μ F capacitors are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results.

9 Layout

9.1 Layout Guidelines

When using multiple-input and multiple-channel logic devices inputs must not ever be left floating. In many cases, functions or parts of functions of digital logic devices are unused; for example, when only two inputs of a triple-input AND gate are used or only 3 of the 4 buffer gates are used. Such unused input pins must not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. All unused inputs of digital logic devices must be connected to a logic high or logic low voltage, as defined by the input voltage specifications, to prevent them from floating. The logic level that must be applied to any particular unused input depends on the function of the device. Generally, the inputs are tied to GND or V_{CC} , whichever makes more sense for the logic function or is more convenient.



10 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

10.1 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.

10.2 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.

Linked content is provided "AS IS" by the respective contributors. They do not constitute TI specifications and do not necessarily reflect TI's views; see TI's Terms of Use.

10.3 Trademarks

TI E2E™ is a trademark of Texas Instruments.

All trademarks are the property of their respective owners.

10.4 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

10.5 Glossary

TI Glossary

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

11 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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PACKAGING INFORMATION

Orderable part number	Status	Material type	Package Pins	Package qty Carrier	(3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
85519012A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	85519012A SNJ54HC 259FK
8551901EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8551901EA SNJ54HC259J
JM38510/65402BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 65402BEA
JM38510/65402BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 65402BEA
M38510/65402BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 65402BEA
SN54HC259J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54HC259J
SN54HC259J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54HC259J
SN74HC259D	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	-40 to 85	HC259
SN74HC259DR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259DR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259DRE4	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259DRG4	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259DRG4.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259DT	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	-40 to 85	HC259
SN74HC259N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU NIPDAU	N/A for Pkg Type	-40 to 85	SN74HC259N
SN74HC259N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74HC259N
SN74HC259NE4	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74HC259N
SN74HC259NSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259NSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259PWR	Active	Production	TSSOP (PW) 16	2000 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259PWR.A	Active	Production	TSSOP (PW) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259PWRG4	Active	Production	TSSOP (PW) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC259
SN74HC259PWT	Obsolete	Production	TSSOP (PW) 16	-	-	Call TI	Call TI	-40 to 85	HC259
SN74HCS259DYYR	Active	Production	SOT-23-THIN (DYY) 16	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HCS259





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Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SN74HCS259DYYR.A	Active	Production	SOT-23-THIN (DYY) 16	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	HCS259
SNJ54HC259FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	85519012A SNJ54HC 259FK
SNJ54HC259FK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	85519012A SNJ54HC 259FK
SNJ54HC259J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8551901EA SNJ54HC259J
SNJ54HC259J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8551901EA SNJ54HC259J

⁽¹⁾ Status: For more details on status, see our product life cycle.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

⁽²⁾ Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

⁽⁴⁾ Lead finish/Ball material: Parts 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.

⁽⁵⁾ MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

PACKAGE OPTION ADDENDUM

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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF SN54HC259, SN74HC259:

Catalog : SN74HC259

Military: SN54HC259

NOTE: Qualified Version Definitions:

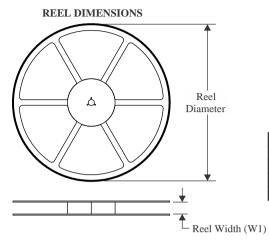
Catalog - TI's standard catalog product

• Military - QML certified for Military and Defense Applications



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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
SN74HC259DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC259DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC259DRG4	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC259DRG4	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC259NSR	SOP	NS	16	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1
SN74HC259PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74HC259PWRG4	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1
SN74HCS259DYYR	SOT-23- THIN	DYY	16	3000	330.0	12.4	4.8	3.6	1.6	8.0	12.0	Q3



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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC259DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74HC259DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74HC259DRG4	SOIC	D	16	2500	353.0	353.0	32.0
SN74HC259DRG4	SOIC	D	16	2500	353.0	353.0	32.0
SN74HC259NSR	SOP	NS	16	2000	353.0	353.0	32.0
SN74HC259PWR	TSSOP	PW	16	2000	353.0	353.0	32.0
SN74HC259PWRG4	TSSOP	PW	16	2000	356.0	356.0	35.0
SN74HCS259DYYR	SOT-23-THIN	DYY	16	3000	336.6	336.6	31.8

PACKAGE MATERIALS INFORMATION

www.ti.com 1-Aug-2025

TUBE

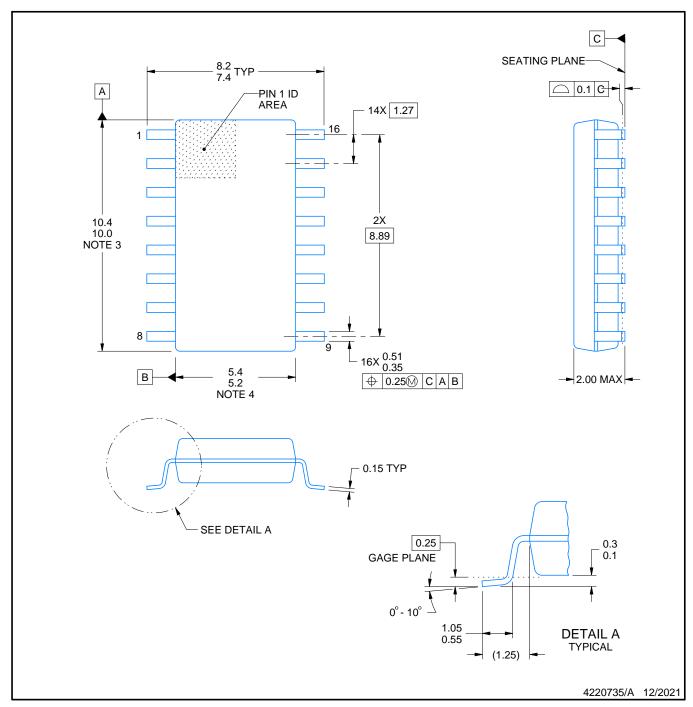


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
85519012A	FK	LCCC	20	55	506.98	12.06	2030	NA
SN74HC259N	N	PDIP	16	25	506	13.97	11230	4.32
SN74HC259N	N	PDIP	16	25	506	13.97	11230	4.32
SN74HC259N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74HC259N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74HC259NE4	N	PDIP	16	25	506	13.97	11230	4.32
SN74HC259NE4	N	PDIP	16	25	506	13.97	11230	4.32
SNJ54HC259FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54HC259FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA



SOP



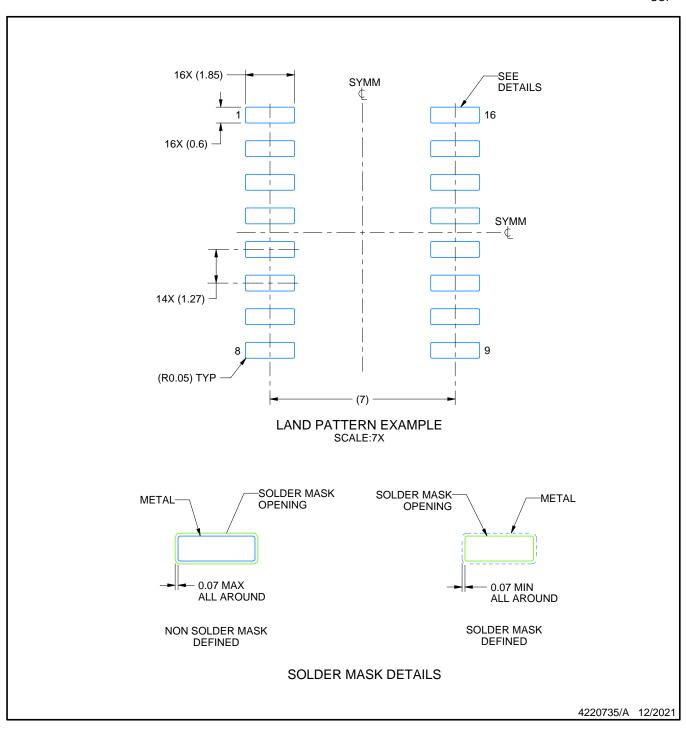
- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing
- per ASME Y14.5M.

 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 0.25 mm, per side.



SOF

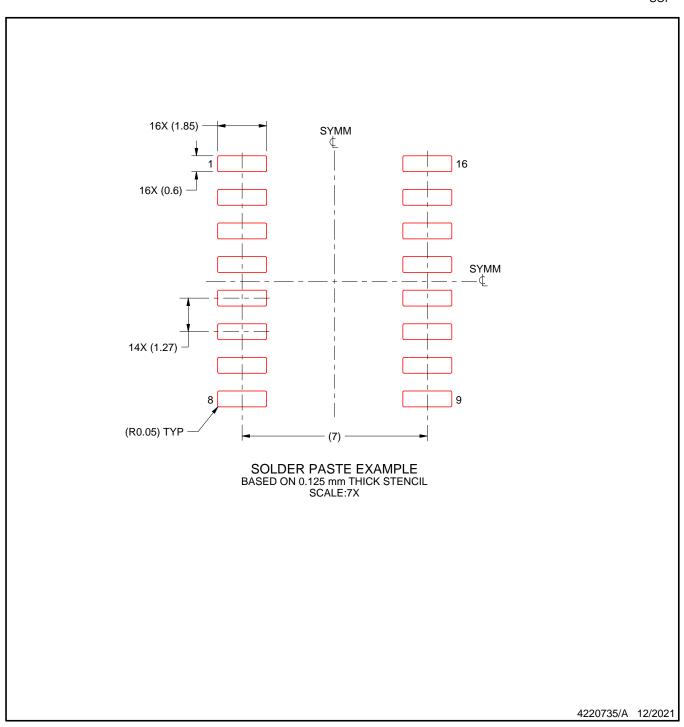


NOTES: (continued)

- 5. Publication IPC-7351 may have alternate designs.
- 6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SOF



NOTES: (continued)

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



D (R-PDS0-G16)

PLASTIC SMALL OUTLINE



- 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.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

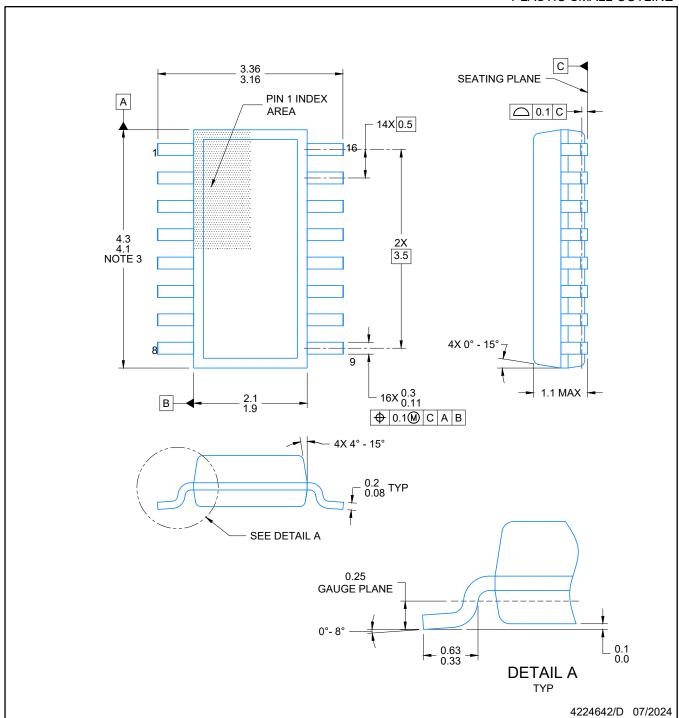
PLASTIC SMALL-OUTLINE PACKAGE



- 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.



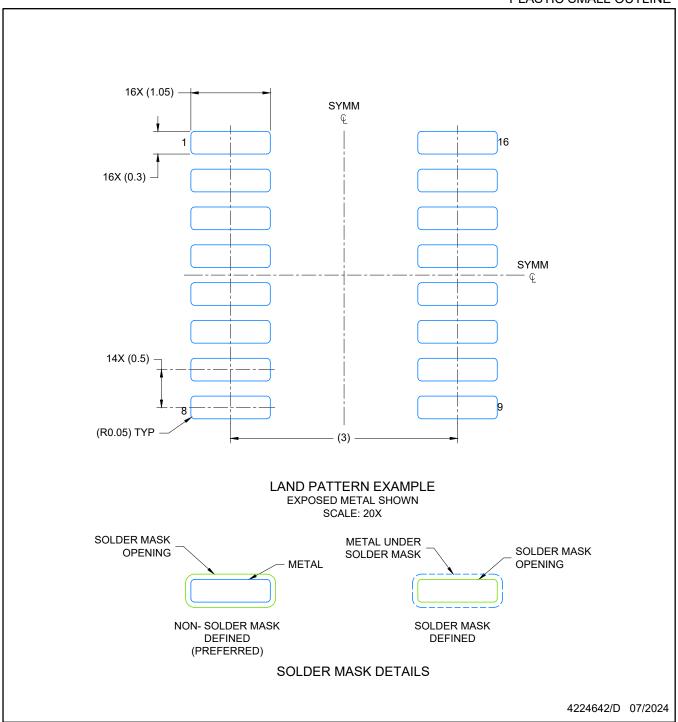
PLASTIC SMALL OUTLINE



- 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 per side
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.50 per side.
- 5. Reference JEDEC Registration MO-345, Variation AA



PLASTIC SMALL OUTLINE

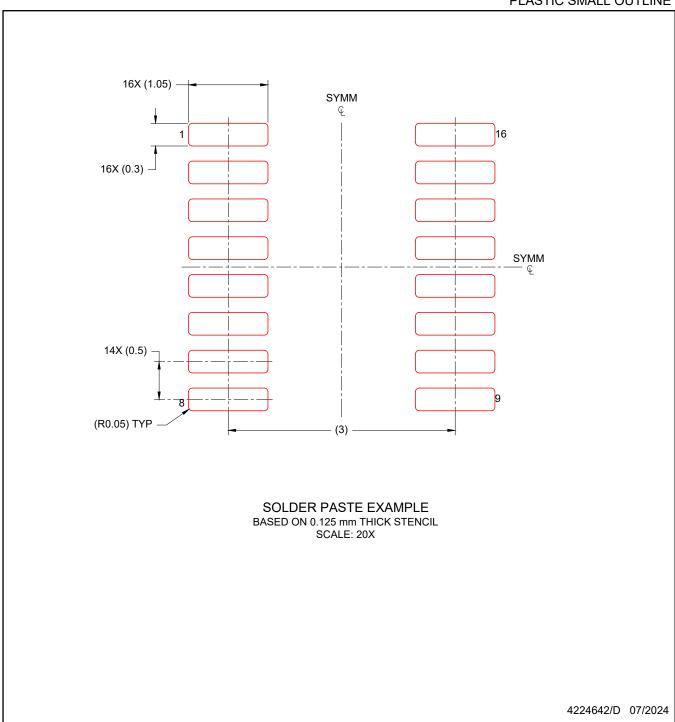


NOTES: (continued)

- 6. Publication IPC-7351 may have alternate designs.
- 7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



PLASTIC SMALL OUTLINE



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.



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.



INSTRUMENTS www.ti.com

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.



SMALL OUTLINE PACKAGE



- 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.



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.



SMALL OUTLINE PACKAGE



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.



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.



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