SN54ACT241, SN74ACT241 **OCTAL BUFFERS/DRIVERS** WITH 3-STATE OUTPUTS SCAS516C - JUNE 1995 - REVISED OCTOBER 2002 4.5-V to 5.5-V V_{CC} Operation Max t_{pd} of 8.5 ns at 5 V Inputs Accept Voltages to 5.5 V Inputs Are TTL Compatible SN54ACT241 ... FK PACKAGE SN54ACT241 ... J OR W PACKAGE SN74ACT241 ... DB, DW, N, NS, OR PW PACKAGE (TOP VIEW) (TOP VIEW) 2Y4 1A1 Vcc 20E 10E 20 Vcc 1A1 19 20E 2 2 1 20 19 18 1A2 1Y1 2Y4 3 18 1Y1 2Y3 17 2A4 1A2 4 17 2A4 1A3 6 16 1Y2 2Y3 5 16 1Y2 2Y2 Π7 15 2A3 1A3 🛛 6 15 2A3 Π8 14 1Y3 1A4 2Y2 **[**7 14 1Y3 9 10 11 12 13 1A4 🛛 8 13 2A2 2Y1 GND 2A1 1Y4 2A2 2Y1 9 12 1Y4

description/ordering information

GND

10

11 2A1

These octal buffers and line drivers are designed specifically to improve the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters.

The 'ACT241 devices are organized as two 4-bit buffers/drivers with separate complementary output-enable (10E and 20E) inputs. When 10E is low or 20E is high, the device passes noninverted data from the A inputs to the Y outputs. When $1\overline{OE}$ is high or 2OE is low, 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 and OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sinking or the current-sourcing capability of the driver.

T _A	PACKAGI	Eţ	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74ACT241N	SN74ACT241N
–40°C to 85°C		Tube	SN74ACT241DW	107044
	SOIC – DW	Tape and reel	SN74ACT241DWR	ACT241
	SOP – NS	Tape and reel	SN74ACT241NSR	ACT241
	SSOP – DB	Tape and reel	SN74ACT241DBR	AD241
	TSSOP – PW	Tape and reel	SN74ACT241PWR	AD241
	CDIP – J	Tube	SNJ54ACT241J	SNJ54ACT241J
–55°C to 125°C	CFP – W	Tube	SNJ54ACT241W	SNJ54ACT241W
	LCCC – FK	Tube	SNJ54ACT241FK	SNJ54ACT241FK

ORDERING INFORMATION

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



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



Copyright © 2002, Texas Instruments Incorporated On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

SN54ACT241, SN74ACT241 **OCTAL BUFFERS/DRIVERS** WITH 3-STATE OUTPUTS

SCAS516C - JUNE 1995 - REVISED OCTOBER 2002

FUN	ICTION	TABLES
INPU	JTS	OUTPUT
10E	1 A	1Y
L	Н	Н
L	L	L
н	Х	Z
INPU	JTS	OUTPUT
20E	2A	2Y
Н	Н	Н

L

Х

L

7

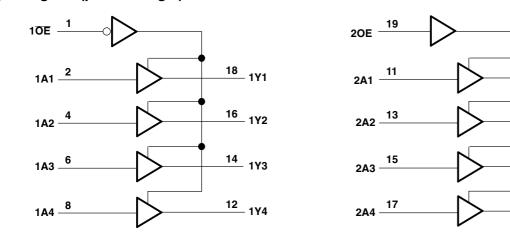
9 _____ 2Y1

7 ____ 2Y2

5 2Y3

3 _____2Y4

logic diagram (positive logic)



Н

L

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)	-0.5 V to 7 V -0.5 V to V _{CC} + 0.5 V -0.5 V to V _{CC} + 0.5 V -0.5 V to V _{CC} + 0.5 V ±20 mA
	±20 mA
	±50 mA
Continuous current through V _{CC} or GND	±200 mA
Package thermal impedance, θ_{JA} (see Note 2):	DB package 70°C/W
	DW package 58°C/W
	N package 69°C/W
	NS package 60°C/W
	PW package
Storage temperature range, T _{stg}	–65°C to 150°C

[†] 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.



SCAS516C - JUNE 1995 - REVISED OCTOBER 2002

recommended operating conditions (see Note 3)

		SN54A	CT241	SN74A	CT241	UNIT
		MIN	MAX	MIN	MIN MAX	
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
$\Delta t / \Delta v$	Input transition rise or fall rate		8		8	ns/V
T _A	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.

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

	TEST CONDITIONS		T	_A = 25°C	;	SN54A	CT241	SN74ACT241		
PARAMETER	TEST CONDITIONS	V _{CC}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
	L 50	4.5 V	4.4	4.49		4.4		4.4		
	I _{OH} = –50 μA	5.5 V	5.4	5.49		5.4		5.4		
V		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
	$I_{OH} = -50 \text{ mA}^{\dagger}$	5.5 V				3.85				
	$I_{OH} = -75 \text{ mA}^{\dagger}$	5.5 V						3.85		
	I _{OL} = 50 μA	4.5 V		0.001	0.1		0.1		0.1	v
		5.5 V		0.001	0.1		0.1		0.1	
V	I _{OL} = 24 mA	4.5 V			0.36		0.5		0.44	
V _{OL}		5.5 V			0.36		0.5		0.44	
	$I_{OL} = 50 \text{ mA}^{\dagger}$	5.5 V					1.65			
	$I_{OL} = 75 \text{ mA}^{\dagger}$	5.5 V							1.65	
I _{OZ}	$V_O = V_{CC}$ or GND	5.5 V			±0.25		±5		±2.5	μA
I _I	$V_{I} = V_{CC}$ or GND	5.5 V			±0.1		±1		±1	μA
I _{CC}	$V_{I} = V_{CC} \text{ or GND}, \qquad I_{O} = 0$	5.5 V			4		80		40	μA
ΔI_{CC}^{\ddagger}	One input at 3.4 V, Other inputs at GND or $\rm V_{\rm CC}$	5.5 V		0.6			1.6		1.5	mA
Ci	$V_I = V_{CC}$ or GND	5 V		2.5						pF
Co	$V_{I} = V_{CC} \text{ or } GND$	5 V		8						pF

[†] Not more than one output should be tested at a time, and the duration of the test should not exceed 2 ms.

[‡] 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}.



SN54ACT241, SN74ACT241 OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS

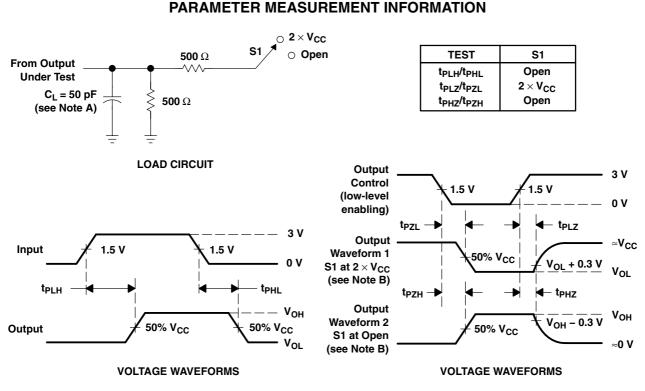
SCAS516C - JUNE 1995 - REVISED OCTOBER 2002

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

DADAMETED	FROM	TO (OUTPUT)	T _A = 25°C			SN54A	CT241	SN74A	UNIT	
PARAMETER	(INPUT)		MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
t _{PLH}	A	Y	1.5	6	8.5	1	9.5	1.5	9.5	
t _{PHL}			1.5	5.5	7.5	1	9	1.5	8.5	ns
t _{PZH}	OE or OE	Y	1.5	7	8.5	1	10	1	9.5	ns
t _{PZL}			2	7	9.5	1	11.5	1.5	10.5	
t _{PHZ}		Y	2	8	9.5	1	11	2	10.5	
t _{PLZ}	OE of OE		2.5	6.5	10	1	11.5	2	10.5	ns

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

	PARAMETER	TEST CO	TYP	UNIT	
C _{pd}	Power dissipation capacitance per buffer/driver	C _L = 50 pF,	f = 1 MHz	45	pF



NOTES: 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 \leq 1 MHz, Z_O = 50 Ω , t_f \leq 2.5 ns, t_f \leq 2.5 ns.

 ${\sf D}. \ \ {\sf The outputs are measured one at a time with one input transition per measurement.}$

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 (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
5962-89847012A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 89847012A SNJ54ACT 241FK	Samples
5962-8984701RA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8984701RA SNJ54ACT241J	Samples
5962-8984701SA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8984701SA SNJ54ACT241W	Samples
SN74ACT241DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD241	Samples
SN74ACT241DW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT241	Samples
SN74ACT241DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT241	Samples
SN74ACT241N	ACTIVE	PDIP	N	20	20	RoHS & Non-Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ACT241N	Samples
SN74ACT241NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT241	Samples
SN74ACT241PW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD241	Samples
SN74ACT241PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD241	Samples
SNJ54ACT241FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 89847012A SNJ54ACT 241FK	Samples
SNJ54ACT241J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8984701RA SNJ54ACT241J	Samples
SNJ54ACT241W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8984701SA SNJ54ACT241W	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.



www.ti.com

PACKAGE OPTION ADDENDUM

⁽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.

(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.

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.

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 SN54ACT241, SN74ACT241 :

Catalog : SN74ACT241

Military : SN54ACT241

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

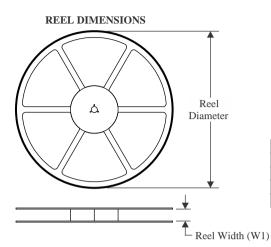


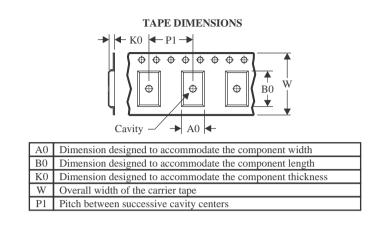
Texas

*All dimensions are nominal

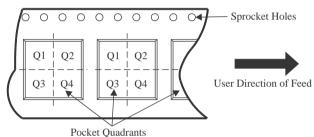
STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



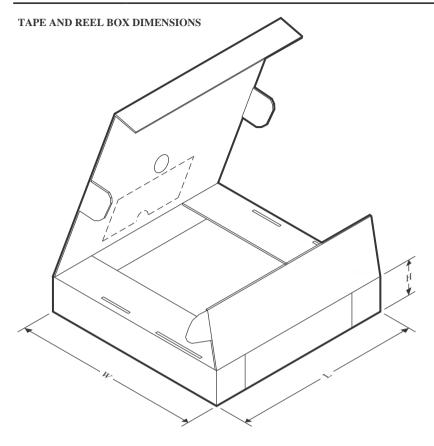
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ACT241DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ACT241DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ACT241NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ACT241PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1



www.ti.com

PACKAGE MATERIALS INFORMATION

9-Aug-2022



*All dimensions are nominal

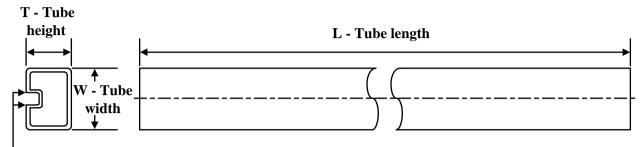
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ACT241DBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ACT241DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ACT241NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ACT241PWR	TSSOP	PW	20	2000	356.0	356.0	35.0

TEXAS INSTRUMENTS

www.ti.com

9-Aug-2022

TUBE



- B - Alignment groove width

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
5962-89847012A	FK	LCCC	20	1	506.98	12.06	2030	NA
5962-8984701SA	W	CFP	20	1	506.98	26.16	6220	NA
SN74ACT241DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ACT241N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ACT241PW	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ACT241FK	FK	LCCC	20	1	506.98	12.06	2030	NA
SNJ54ACT241W	W	CFP	20	1	506.98	26.16	6220	NA

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- NOTES: A. All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice. В.
 - 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



PW0020A



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.



PW0020A

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.



PW0020A

EXAMPLE STENCIL DESIGN

TSSOP - 1.2 mm max height

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.



LAND PATTERN DATA



NOTES: Α. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
 C. Publication IPC-7351 is recommended for alternate design.
- 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.



DB0020A



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. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-150.



DB0020A

EXAMPLE BOARD LAYOUT

SSOP - 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.



DB0020A

EXAMPLE STENCIL DESIGN

SSOP - 2 mm max height

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.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



NOTES: 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.

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.



DW0020A



PACKAGE OUTLINE

SOIC - 2.65 mm max height

SOIC



NOTES:

- 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.



DW0020A

EXAMPLE BOARD LAYOUT

SOIC - 2.65 mm max height

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.



DW0020A

EXAMPLE STENCIL DESIGN

SOIC - 2.65 mm max height

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.



IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265 Copyright © 2023, Texas Instruments Incorporated

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Buffers & Line Drivers category:

Click to view products by Texas Instruments manufacturer:

Other Similar products are found below :

LXV200-024SW 74AUP2G34FW3-7 HEF4043BP NL17SG125DFT2G NLU1GT126CMUTCG CD4041UBE 54FCT240CTDB 74HCT540N DS14C88N 070519XB NL17SZ07P5T5G 74LVC2G17FW4-7 CD4502BE 5962-8982101PA 61446R00 NL17SH17P5T5G NLV37WZ17USG 74HCT126T14-13 74VHC9126FT(BJ) RHRXH162244K1 74AUP1G34FW5-7 74AUP1G07FW5-7 74LVC1G126FW4-7 74LVC2G126RA3-7 74LVCE1G125FZ4-7 54FCT240TLB NLX3G16DMUTCG NLX2G06AMUTCG LE87100NQCT LE87285NQC LE87290YQC LE87290YQCT 74AUP1G125FW5-7 NLU2G16CMUTCG MC74LCX244MN2TWG NL17SG17P5T5G NLV74HC125ADR2G NLVHCT245ADTR2G NLVVHC1G126DFT2G EL5623IRZ ISL15102AIRZ-T13 ISL1539IRZ-T13 MC100EP17MNG MC74HCT365ADR2G MC74LCX244ADTR2G NL27WZ126US NL37WZ16US NLU1G07MUTCG NLU2G07MUTCG NLX3G17BMX1TCG