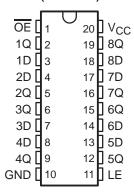
- State-of-the-Art EPIC-IIB™ BiCMOS Design Significantly Reduces Power Dissipation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17
- Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_A = 25°C
- High-Drive Outputs (-32-mA I_{OH}, 64-mA I_{OL})
- Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Ceramic Flat (W) Package, and Plastic (N) and Ceramic (J) DIPs

description

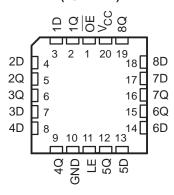
The eight latches of the 'ABT373 are transparent D-type latches. While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels set up at the D inputs.

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 a 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 without need for interface or pullup components.

SN54ABT373 . . . J OR W PACKAGE SN74ABT373 . . . DB, DW, N, OR PW PACKAGE (TOP VIEW)



SN54ABT373 . . . FK PACKAGE (TOP VIEW)



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.

The SN54ABT373 is characterized for operation over the full military temperature range of –55°C to 125°C. The SN74ABT373 is characterized for operation from –40°C to 85°C.

FUNCTION TABLE (each latch)

	INPUTS	OUTPUT	
OE	LE	D	Q
L	Н	Н	Н
L	Н	L	L
L	L	Χ	Q ₀
Н	Χ	Χ	Z



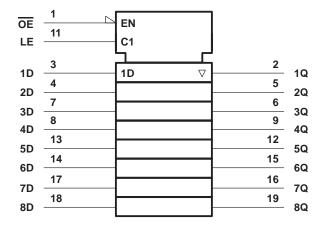
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

EPIC-IIB is a trademark of Texas Instruments Incorporated.

TEXAS INSTRUMENTS

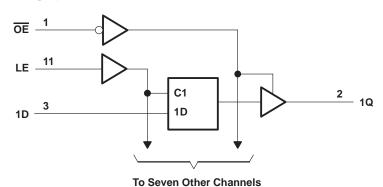
POST OFFICE BOX 655303 • DALLAS. TEXAS 75265

logic symbol[†]



[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

logic diagram (positive logic)



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)‡

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input voltage range, V _I (see Note 1)		0.5 V to 7 V
Voltage range applied to any output in the	e high or power-off state, VO	
Current into any output in the low state, I	O: SN54ABT373	96 mA
	SN74ABT373	128 mA
Input clamp current, I_{IK} ($V_I < 0$)		–18 mA
Output clamp current, I _{OK} (V _O < 0)		–50 mA
Package thermal impedance, θ _{JA} (see N	lote 2): DB package	115°C/W
	DW package	97°C/W
	N package	67°C/W
	PW package	128°C/W
Storage temperature range, T _{stg}		

[‡] 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.

^{2.} The package thermal impedance is calculated in accordance with EIA/JEDEC Std JESD51, except for through-hole packages, which use a trace length of zero.



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

recommended operating conditions (see Note 3)

			SN54A	BT373	SN74A	BT373	UNIT
			MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage		4.5	5.5	4.5	5.5	V
VIH	High-level input voltage		2		2		V
V _{IL}	Low-level input voltage			0.8		0.8	V
VI	Input voltage		0	VCC	0	VCC	V
IOH	High-level output current			-24		-32	mA
IOL	Low-level output current			48		64	mA
Δt/Δν	Input transition rise or fall rate	Outputs enabled		5		5	ns/V
TA	Operating free-air temperature		<i>–</i> 55	125	-40	85	°C

NOTE 3: Unused inputs must be held high or low to prevent them from floating.

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

BARAMETER		TEGT CONDITION	10	Т	A = 25°C	;	SN54A	BT373	SN74A	BT373	LINUT
PARAMETER		TEST CONDITION	NS .	MIN	TYP†	MAX	MIN	MAX	MIN	MAX	UNIT
VIK	$V_{CC} = 4.5 V$,	$I_{I} = -18 \text{ mA}$				-1.2		-1.2		-1.2	V
	$V_{CC} = 4.5 V$,	$I_{OH} = -3 \text{ mA}$		2.5			2.5		2.5		
Vou	$V_{CC} = 5 V$,	$I_{OH} = -3 \text{ mA}$		3			3		3		V
VOH	V _{CC} = 4.5 V	$I_{OH} = -24 \text{ mA}$		2			2				V
	vCC = 4.5 v	$I_{OH} = -32 \text{ mA}$		2*					2		
VOL	V _{CC} = 4.5 V	I _{OL} = 48 mA				0.55		0.55			V
VOL	VCC = 4.5 V	$I_{OL} = 64 \text{ mA}$				0.55*				0.55	٧
V _{hys}					100						mV
lį	$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GND				±1		±1		±1	μΑ
lozh	$V_{CC} = 5.5 V$,	V _O = 2.7 V				10 [‡]		10‡		10‡	μΑ
lozL	$V_{CC} = 5.5 \text{ V},$	$V_0 = 0.5 V$				-10 [‡]		-10 [‡]		-10 [‡]	μΑ
l _{off}	$V_{CC} = 0$,	V_I or $V_O \le 4.5 \text{ V}$				±100				±100	μΑ
ICEX	$V_{CC} = 5.5 \text{ V},$	$V_0 = 5.5 \text{ V}$	Outputs high			50		50		50	μΑ
ΙΟ§	$V_{CC} = 5.5 \text{ V},$	$V_0 = 2.5 \text{ V}$		-50	-100	-180	-50	-180	-50	-180	mA
	.,		Outputs high		1	250		250		250	μΑ
Icc	$V_{CC} = 5.5 \text{ V}, \text{ I}_{C}$ $V_{I} = V_{CC} \text{ or GI}$		Outputs low		24	30		30		30	mA
	11-100 01		Outputs disabled		0.5	250		250		250	μΑ
ΔICC¶	V _{CC} = 5.5 V, C Other inputs at	One input at 3.4 V, V _{CC} or GND				1.5		1.5		1.5	mA
C _i	$V_{I} = 2.5 \text{ V or } 0.$			3						pF	
Co	$V_0 = 2.5 \text{ V or } 0$	0.5 V			6						pF

^{*} On products compliant to MIL-PRF-38535, this parameter does not apply.



[†] All typical values are at $V_{CC} = 5 \text{ V}$.

[‡]This data sheet limit may vary among suppliers.

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

[¶] This is the increase in supply current for each input that is at the specified TTL voltage level rather than V_{CC} or GND.

SN54ABT373, SN74ABT373 OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS155D - JANUARY 1991 - REVISED MAY 1997

timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

					SN54A	BT373		
				V _{CC} =	= 5 V, 25°C	MIN	MAX	UNIT
				MIN	MAX			
t _W	Pulse duration, LE high			3.3		3.3		ns
t	Setup time, data before LE↓		High	2.2		2.5		ns
tsu	işμ Setup time, data belore LE↓		Low	2.2		2.5		113
t _h	Hold time, data after LE↓		High or low	2.2		2.5		ns

timing requirements over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted) (see Figure 1)

					SN74A	BT373		
				V _{CC} = 5 V, T _A = 25°C		MIN MAX		UNIT
				MIN	MAX			
t _W	Pulse duration, LE high			3.3		3.3		ns
	Catura time a data hafana I E	F	High	1.9		1.9		no
t _{su}	u Setup time, data before LE↓		_OW	1.5		1.5		ns
th	Hold time, data after LE↓	F	ligh or low	1		1		ns



SN54ABT373, SN74ABT373 OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

SCBS155D - JANUARY 1991 - REVISED MAY 1997

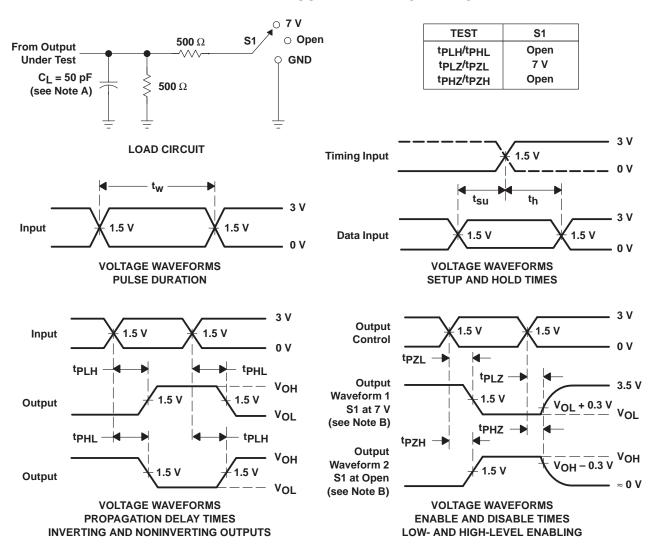
switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

				SN	54ABT3	73		
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _C	C = 5 V \ = 25°C	/, ;	MIN	MAX	UNIT
			MIN	TYP	MAX			
^t PLH	D	Q	1.9	3.9	5.4	1.3	6.8	ns
t _{PHL}	В	ά	2.2	4.2	5.7	2	7	115
t _{PLH}	LE	Q	2.2	4.6	6.1	1.8	7.7	ns
t _{PHL}	LL	ά	3.2	5.2	6.7	2.5	7.7	115
^t PZH	ŌĒ	Q	1.2	3.2	5.5	1	6.2	ns
t _{PZL}	OE .	ά	2	4.7	6.2	1.5	7.2	115
^t PHZ	ŌĒ	Q	2.5	4.9	6.4	2.4	8	ns
t _{PLZ}	OE OE		2	4.5	6	2	7	115

switching characteristics over recommended ranges of supply voltage and operating free-air temperature, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	۷ ₀ ۲٫	C = 5 V \ = 25°C	/, ;	MIN	MAX	UNIT
			MIN	TYP	MAX			
t _{PLH}	D	Q	1.9	3.9	5.4	1.9	5.9	no
t _{PHL}	D	Q	2.2	4.2	5.7	2.2	6.2	ns
^t PLH	LE	Q	2.2	4.6	6.1	2.2	6.6	ns
t _{PHL}	LL	Q	3.2	5.2	6.7	3.2	7.2	115
^t PZH	ŌĒ	Q	1.2	3.2	4.7	1.2	5.2	no
t _{PZL}	OE .	Q	2.7	4.7	6.2	2.7	6.7	ns
t _{PHZ}	ŌĒ	Q	2.5	4.9	6.4	2.5	6.9	nc
t _{PLZ}	OE OE	Q I	2	4.5	6	2	6.5	ns

PARAMETER MEASUREMENT INFORMATION



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 10 MHz, Z_{Q} = 50 Ω , t_{f} \leq 2.5 ns, t_{f} \leq 2.5 ns.
- D. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms



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PACKAGING INFORMATION

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)
5962-9321801Q2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9321801Q2A SNJ54ABT 373FK
5962-9321801QRA	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9321801QR A SNJ54ABT373J
5962-9321801QSA	Active	Production	CFP (W) 20	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9321801QS A SNJ54ABT373W
SN74ABT373DBR	Active	Production	SSOP (DB) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373DBR.B	Active	Production	SSOP (DB) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373DBRG4	Active	Production	SSOP (DB) 20	2000 LARGE T&R	-	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373DBRG4.B	Active	Production	SSOP (DB) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373DW	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373DW.B	Active	Production	SOIC (DW) 20	25 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373DWR	Active	Production	SOIC (DW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373DWR.B	Active	Production	SOIC (DW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373N	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74ABT373N
SN74ABT373N.B	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74ABT373N
SN74ABT373NSR	Active	Production	SOP (NS) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373NSR.B	Active	Production	SOP (NS) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373
SN74ABT373PW	Active	Production	TSSOP (PW) 20	70 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373PW.B	Active	Production	TSSOP (PW) 20	70 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373PWR	Active	Production	TSSOP (PW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373PWR.B	Active	Production	TSSOP (PW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373PWRG4	Active	Production	TSSOP (PW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SN74ABT373PWRG4.B	Active	Production	TSSOP (PW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373
SNJ54ABT373FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 9321801Q2A SNJ54ABT 373FK

17-Jun-2025

SNJ54ABT373W

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Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SNJ54ABT373J	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9321801QR A SNJ54ABT373J
SNJ54ABT373W	Active	Production	CFP (W) 20	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9321801QS A

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

- (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.

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.

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OTHER QUALIFIED VERSIONS OF SN54ABT373, SN74ABT373:

⁽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.

PACKAGE OPTION ADDENDUM

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◆ Catalog : SN74ABT373

Military : SN54ABT373

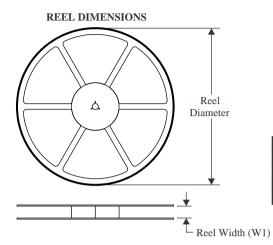
NOTE: Qualified Version Definitions:

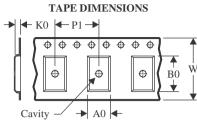
Catalog - TI's standard catalog product

• Military - QML certified for Military and Defense Applications

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TAPE AND REEL INFORMATION





	-
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

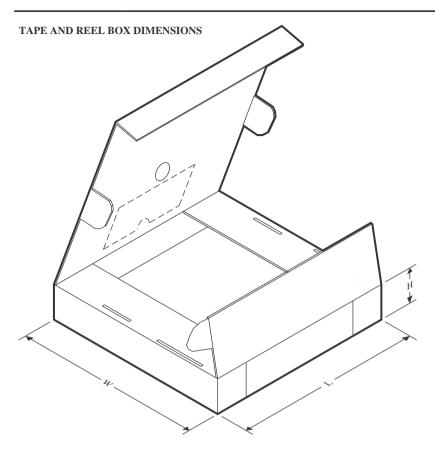


*All dimensions are nominal

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
SN74ABT373DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT373DBRG4	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT373DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ABT373NSR	SOP	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ABT373PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
SN74ABT373PWRG4	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1



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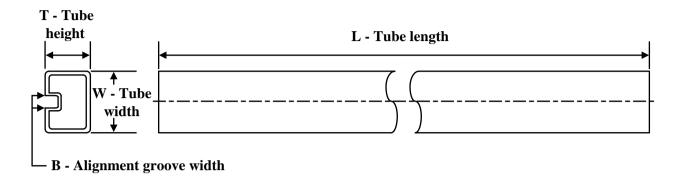
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins SPQ Lei		Length (mm)	Width (mm)	Height (mm)
SN74ABT373DBR	SSOP	DB	20	2000	353.0	353.0	32.0
SN74ABT373DBRG4	SSOP	DB	20	2000	353.0	353.0	32.0
SN74ABT373DWR	SOIC	DW	20	2000	356.0	356.0	45.0
SN74ABT373NSR	SOP	NS	20	2000	356.0	356.0	45.0
SN74ABT373PWR	TSSOP	PW	20	2000	353.0	353.0	32.0
SN74ABT373PWRG4	TSSOP	PW	20	2000	353.0	353.0	32.0

PACKAGE MATERIALS INFORMATION

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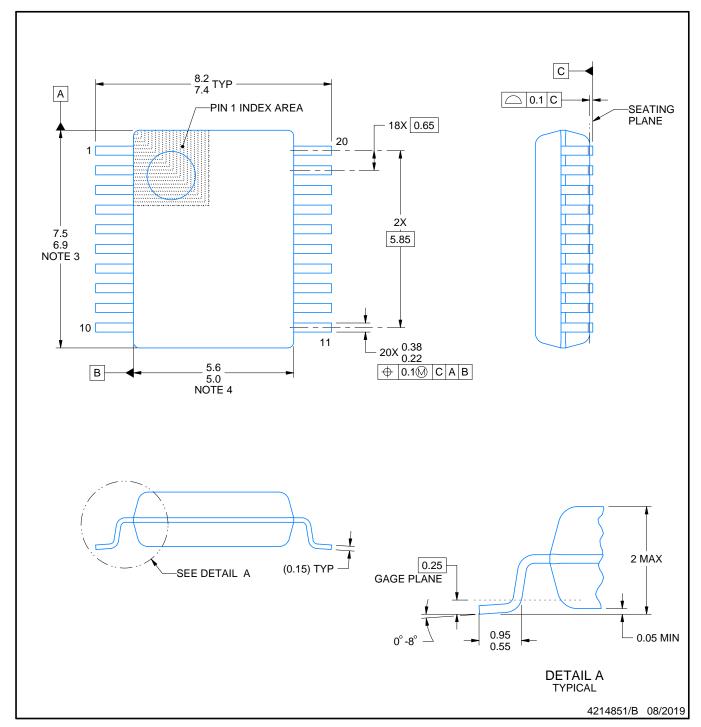
TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9321801Q2A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-9321801QSA	W	CFP	20	25	506.98	26.16	6220	NA
SN74ABT373DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT373DW.B	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT373N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT373N.B	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT373PW	PW	TSSOP	20	70	530	10.2	3600	3.5
SN74ABT373PW.B	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT373FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54ABT373W	W	CFP	20	25	506.98	26.16	6220	NA



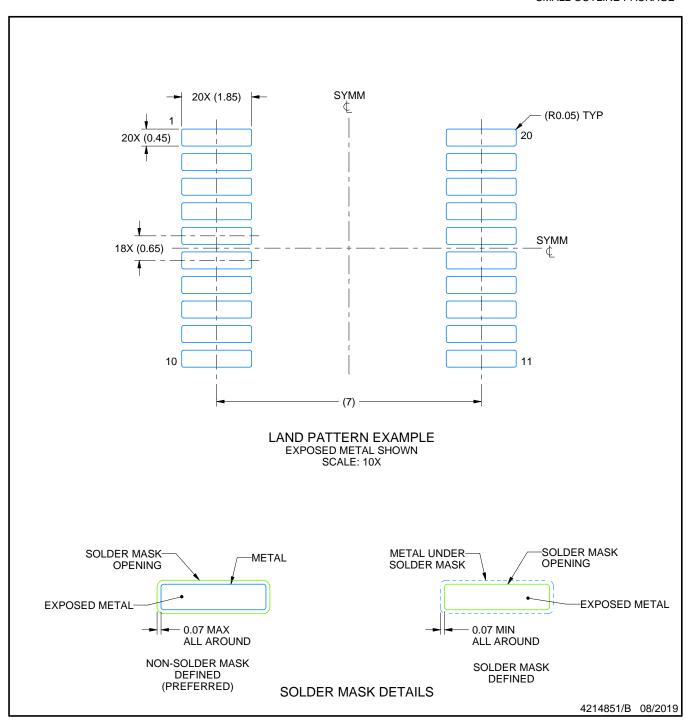


- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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.



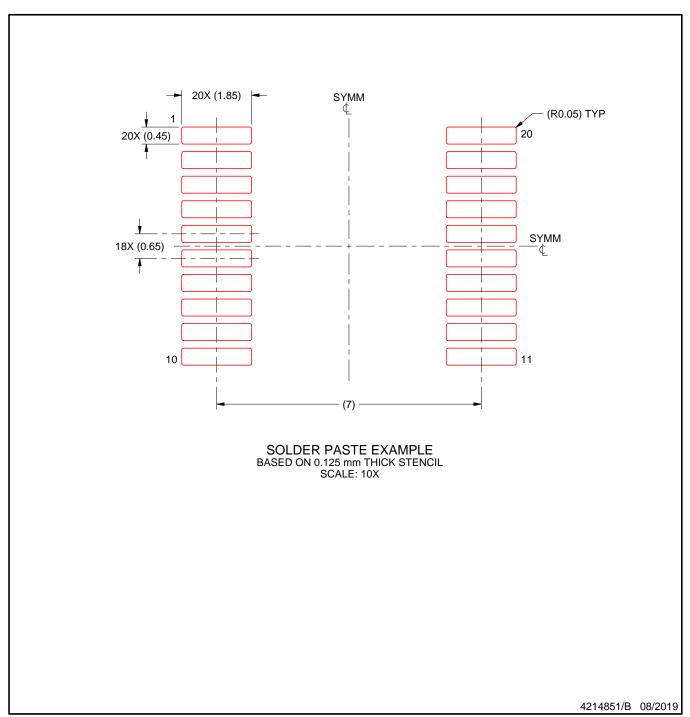


NOTES: (continued)

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

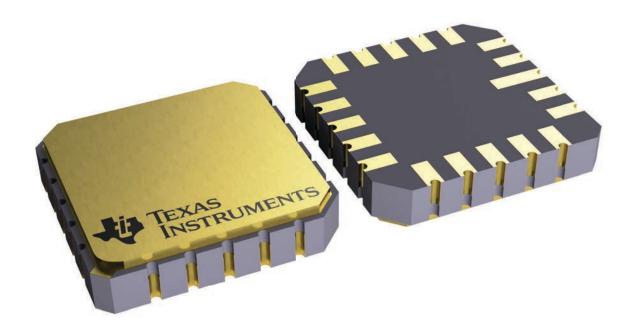


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. 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.



INSTRUMENTS www.ti.com

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



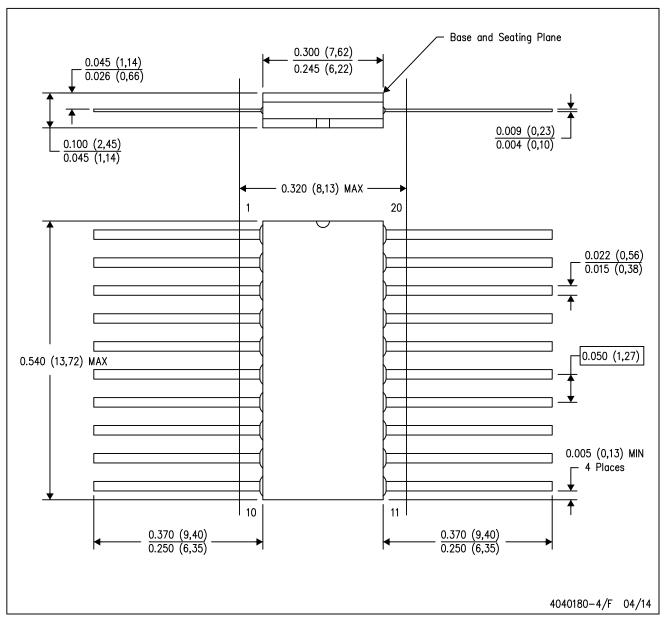
NOTES: (continued)

- 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.



W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



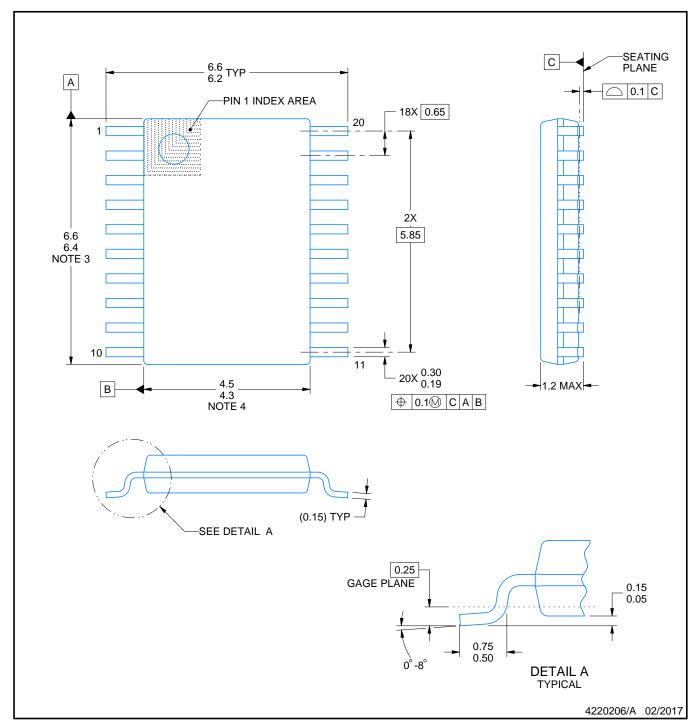
- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.

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

 E. Falls within Mil—Std 1835 GDFP2—F20





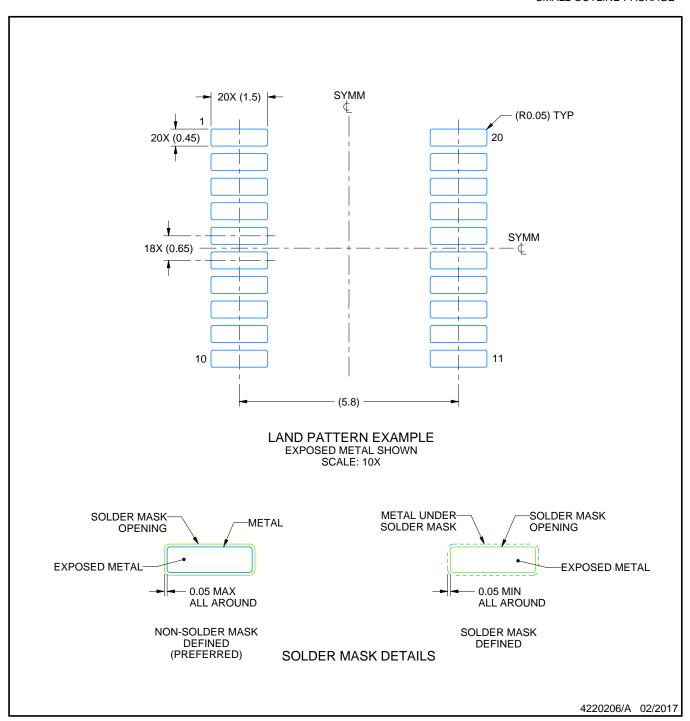


- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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.



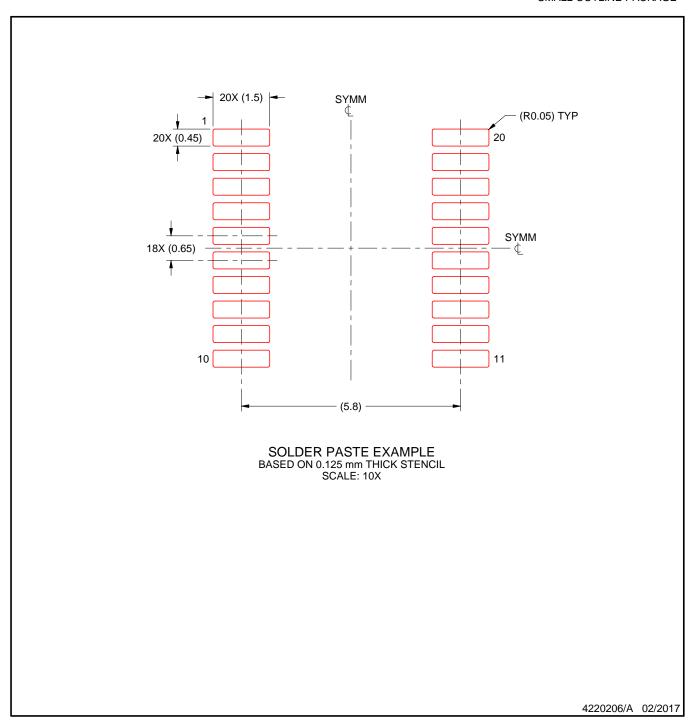


NOTES: (continued)

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.



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