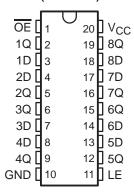
- State-of-the-Art EPIC-IIB™ BiCMOS Design Significantly Reduces Power Dissipation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17
- Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_A = 25°C
- High-Drive Outputs (–32-mA I_{OH}, 64-mA I_{OL})
- Package Options Include Plastic 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

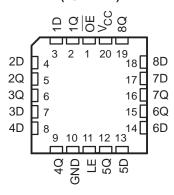
The eight latches of the 'ABT373 are transparent D-type latches. While the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is taken low, the Q outputs are latched at the logic levels set up at the D inputs.

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



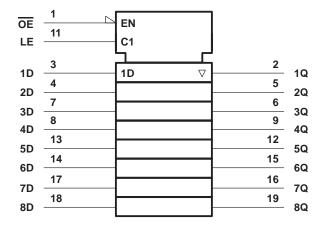
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

EPIC-IIB is a trademark of Texas Instruments Incorporated.

TEXAS INSTRUMENTS

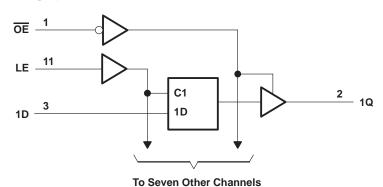
POST OFFICE BOX 655303 • DALLAS. TEXAS 75265

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 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	Setup time, data before LEV	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, 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}	Setup time, data before LE↓	L	_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

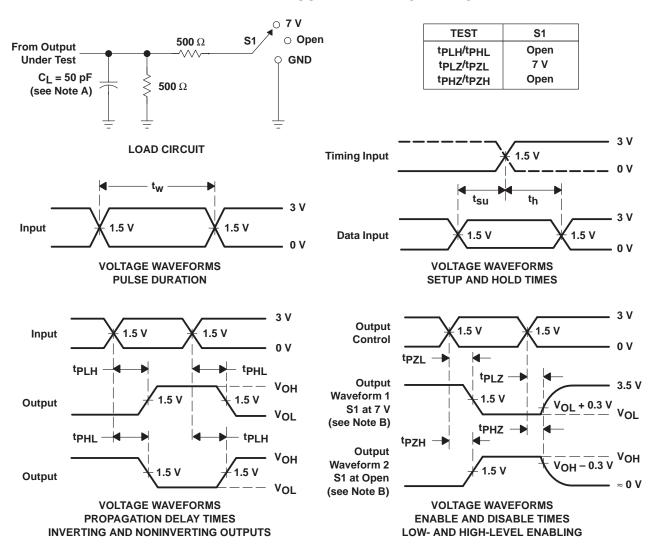
switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

				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	20
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	
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







9-Mar-2021

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
5962-9321801Q2A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9321801Q2A SNJ54ABT 373FK	Samples
5962-9321801QRA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321801QR A SNJ54ABT373J	Samples
5962-9321801QSA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321801QS A SNJ54ABT373W	Samples
SN74ABT373DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373	Samples
SN74ABT373DBRG4	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373	Samples
SN74ABT373DW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373	Samples
SN74ABT373DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373	Samples
SN74ABT373N	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT373N	Samples
SN74ABT373NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT373	Samples
SN74ABT373PW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373	Samples
SN74ABT373PWE4	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373	Samples
SN74ABT373PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB373	Samples
SNJ54ABT373FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9321801Q2A SNJ54ABT 373FK	Samples
SNJ54ABT373J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321801QR A SNJ54ABT373J	Samples
SNJ54ABT373W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321801QS A SNJ54ABT373W	Samples

PACKAGE OPTION ADDENDUM



9-Mar-2021

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

ACTIVE: Product device recommended for new designs.

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

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

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

OBSOLETE: TI has discontinued the production of the device.

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

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

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

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (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.

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OTHER QUALIFIED VERSIONS OF SN54ABT373, SN74ABT373:

Catalog: SN74ABT373

Military: SN54ABT373

NOTE: Qualified Version Definitions:





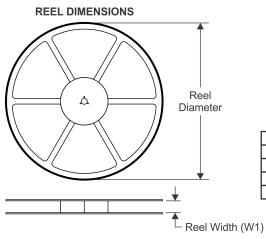
9-Mar-2021

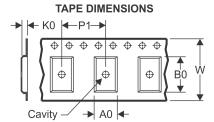
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

www.ti.com 5-Jan-2022

TAPE AND REEL INFORMATION





Α	٧0	Dimension designed to accommodate the component width
В	30	Dimension designed to accommodate the component length
K	(0	Dimension designed to accommodate the component thickness
٧	٧	Overall width of the carrier tape
F	1	Pitch between successive cavity centers

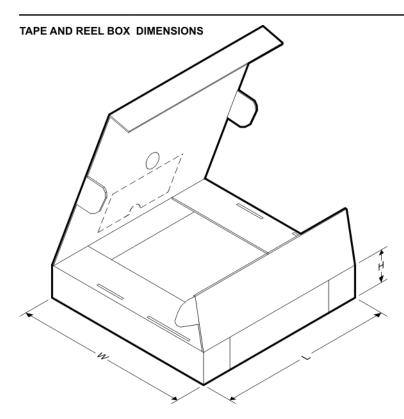
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

All difficultions 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
SN74ABT373DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ABT373NSR	SO	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

www.ti.com 5-Jan-2022



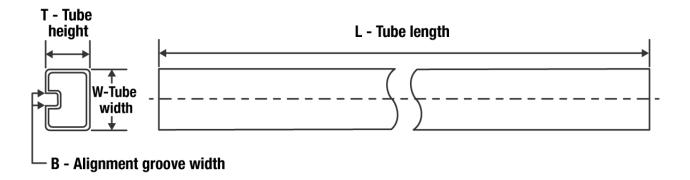
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT373DBR	SSOP	DB	20	2000	853.0	449.0	35.0
SN74ABT373DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT373NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ABT373PWR	TSSOP	PW	20	2000	853.0	449.0	35.0

PACKAGE MATERIALS INFORMATION

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TUBE

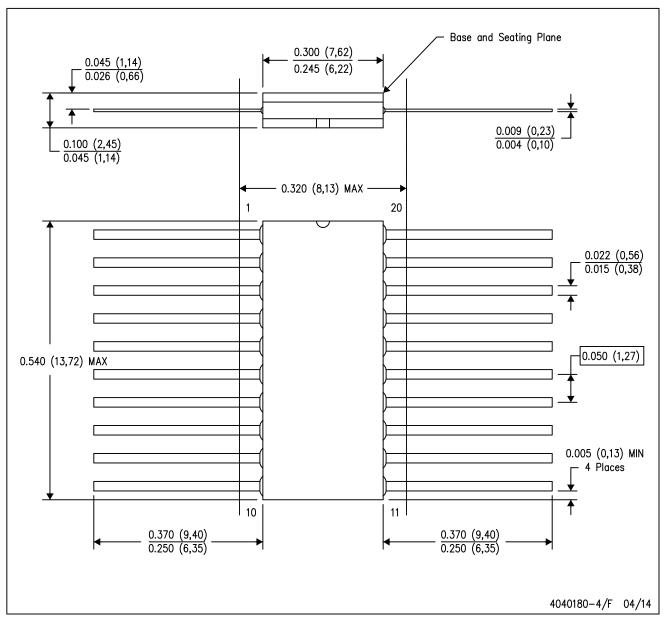


*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9321801Q2A	FK	LCCC	20	1	506.98	12.06	2030	NA
SN74ABT373DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT373N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT373PW	PW	TSSOP	20	70	530	10.2	3600	3.5
SN74ABT373PWE4	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT373FK	FK	LCCC	20	1	506.98	12.06	2030	NA

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



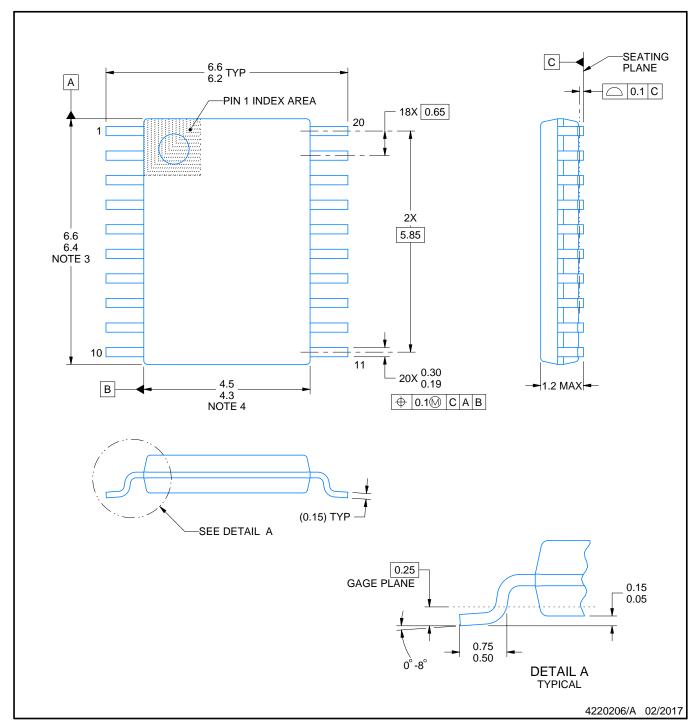
- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.

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

 E. Falls within Mil—Std 1835 GDFP2—F20





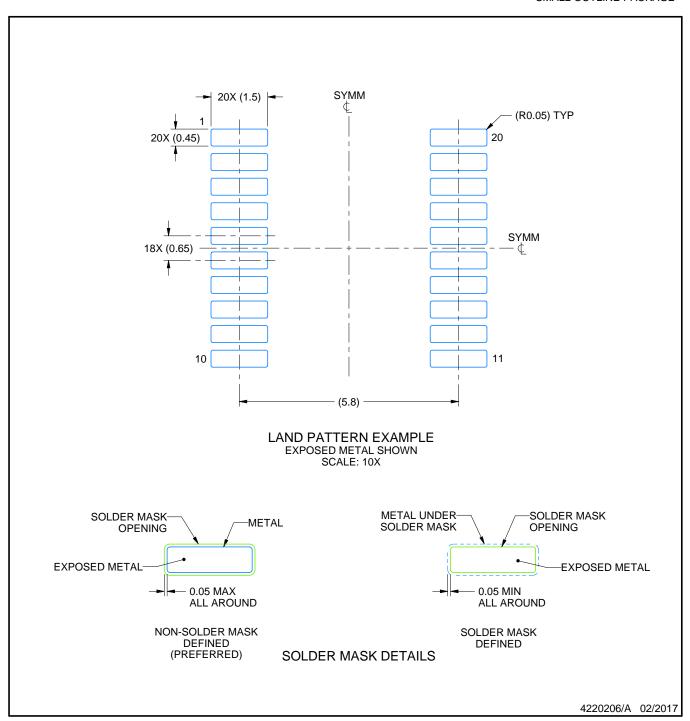


- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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.



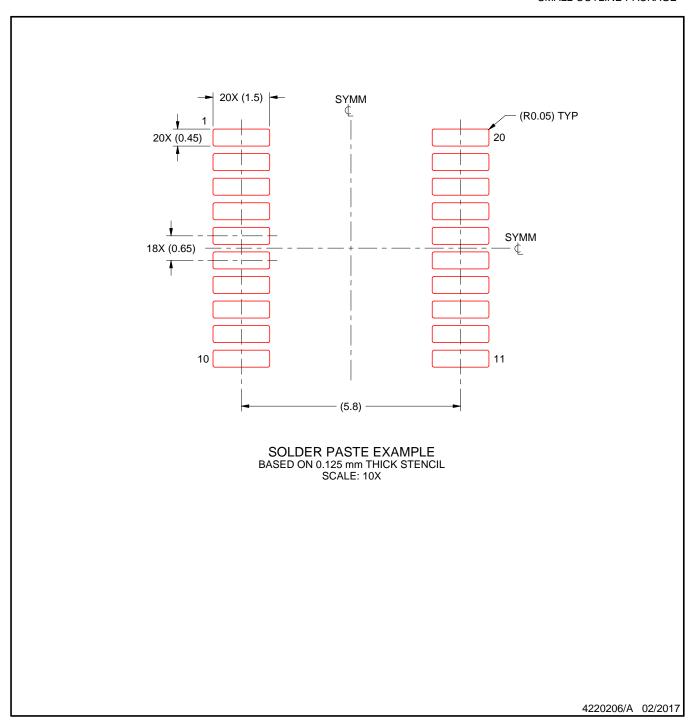


NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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





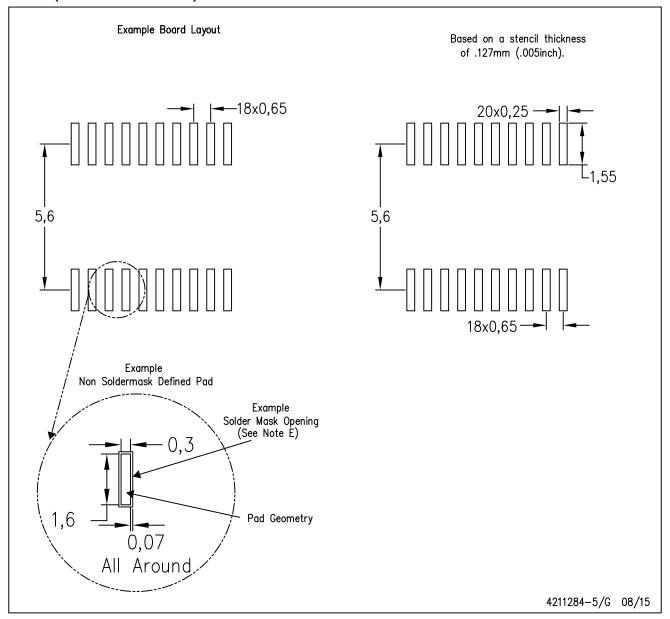
NOTES: (continued)

- 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.



PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- 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.



FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

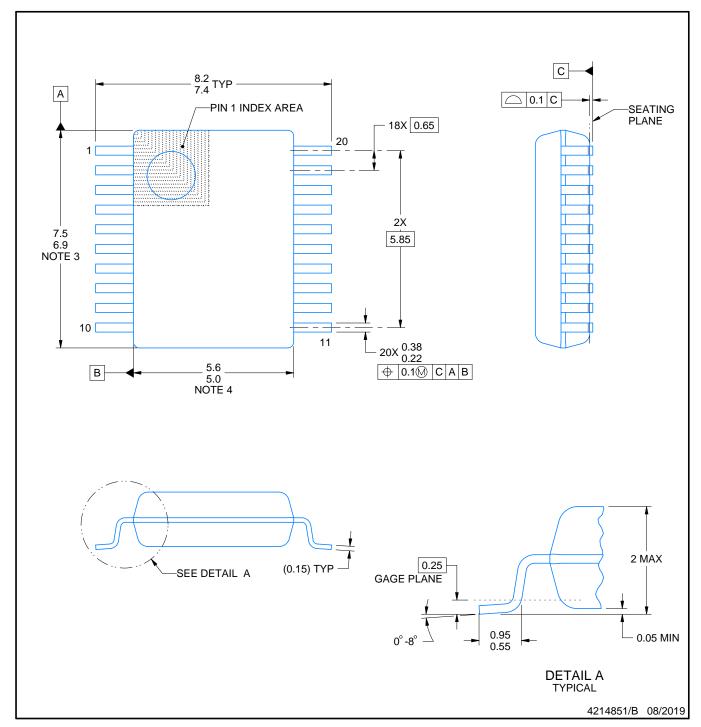
28 TERMINAL SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004





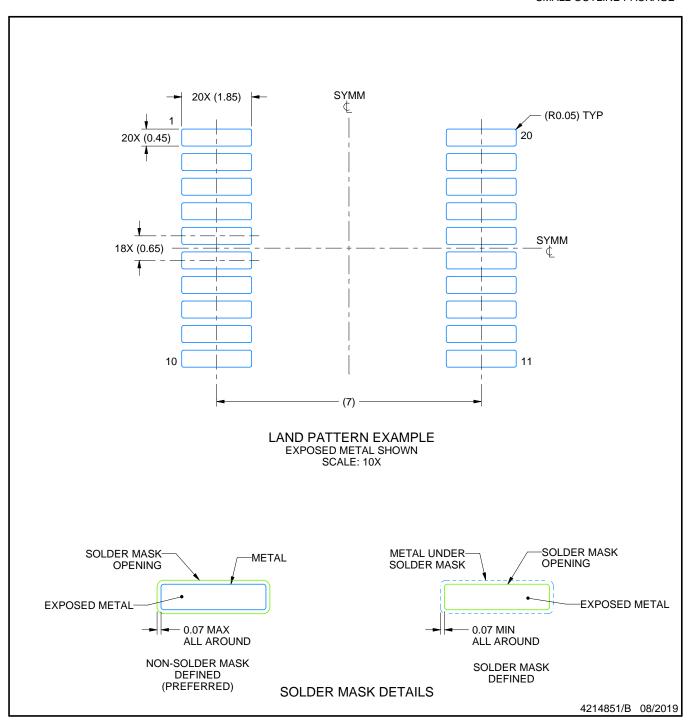


- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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.



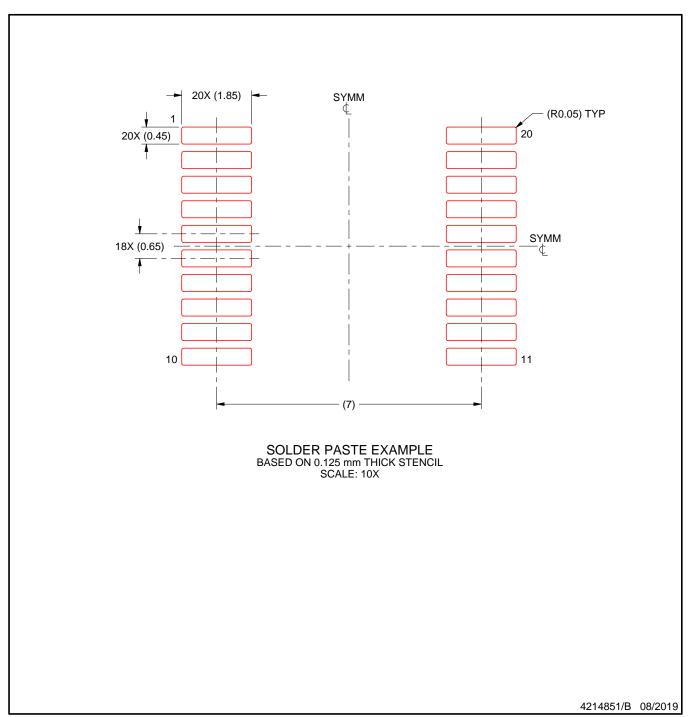


NOTES: (continued)

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.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

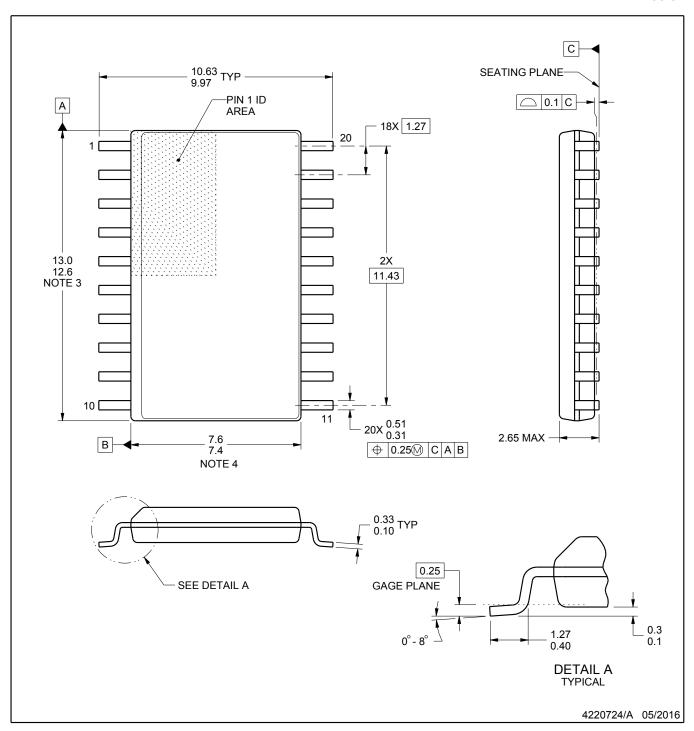


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.





SOIC



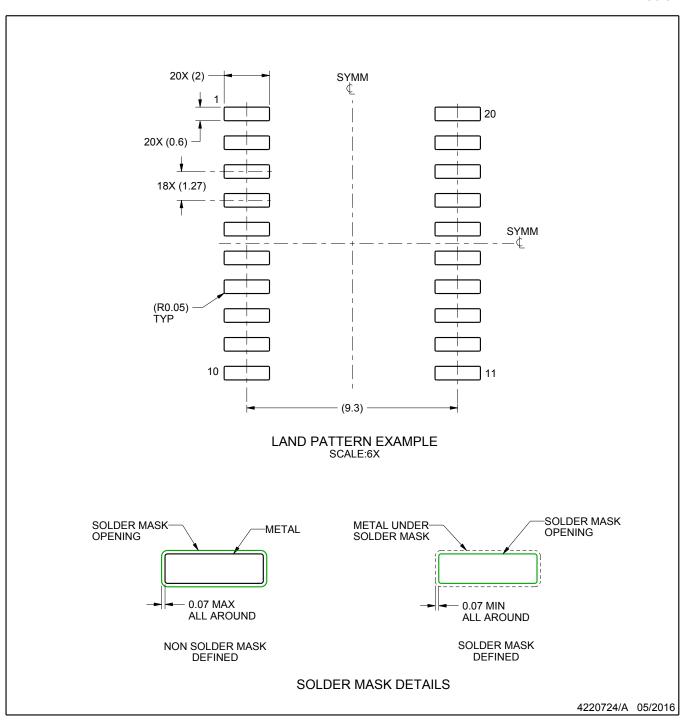
- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 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



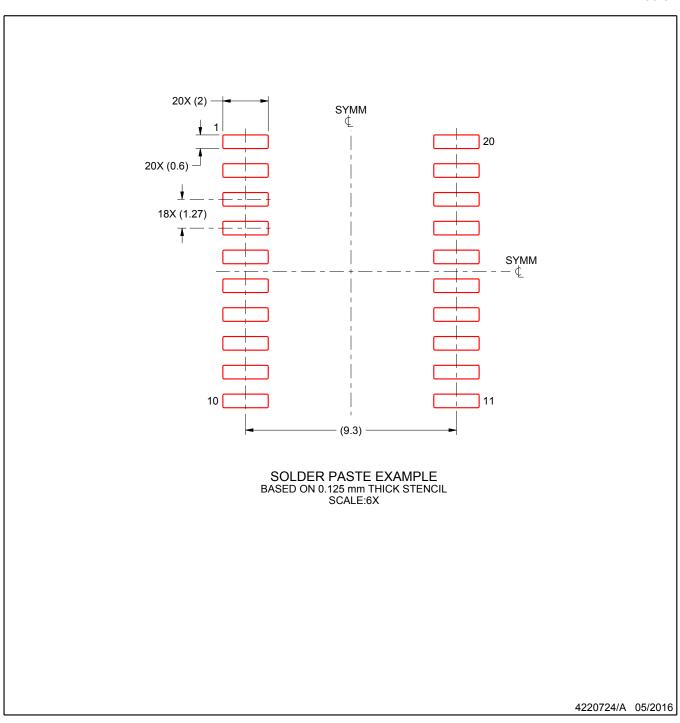
NOTES: (continued)

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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