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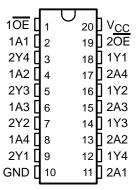
- Typical V_{OLP} (Output Ground Bounce) <1 V at $V_{CC} = 5 \text{ V}, T_A = 25^{\circ}\text{C}$
- High-Drive Outputs (-32-mA I_{OH}, 64-mA I_{OL})
- Ioff Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 500 mA Per **JEDEC Standard JESD-17**
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)

description

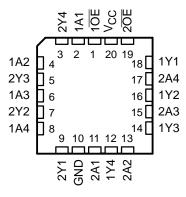
These octal buffers and line drivers are designed specifically to improve both the performance and density of 3-state memory address drivers, clock and bus-oriented receivers transmitters. Together with the SN54ABT241, SN74ABT241A, SN54ABT244, SN74ABT244A, these devices provide the choice of selected combinations of inverting and noninverting outputs, symmetrical active-low output-enable (OE) inputs, and complementary OE and \overline{OE} inputs.

The SN54ABT240 and SN74ABT240A are organized as two 4-bit buffers/line drivers with separate \overline{OE} inputs. When \overline{OE} is low, the devices pass inverted data from the A inputs to the Y outputs. When OE is high, the outputs are in the high-impedance state.

SN54ABT240 . . . J OR W PACKAGE SN74ABT240A...DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)



SN54ABT240 . . . FK PACKAGE (TOP VIEW)



ORDERING INFORMATION

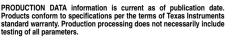
TA	PACKA	GE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN74ABT240AN	SN74ABT240AN
	SOIC - DW	Tube	SN74ABT240ADW	ABT240A
-40°C to 85°C	301C - DW	Tape and reel	SN74ABT240ADWR	AD1240A
	SOP - NS	Tape and reel	SN74ABT240ANSR	ABT240A
	SSOP – DB	Tape and reel	SN74ABT240ADBR	AB240A
	TSSOP – PW	Tape and reel	SN74ABT240APWR	AB240A
	CDIP – J	Tube	SNJ54ABT240J	SNJ54ABT240J
–55°C to 125°C	CFP – W	Tube	SNJ54ABT240W	SNJ54ABT240W
	LCCC – FK	Tube	SNJ54ABT240FK	SNJ54ABT240FK

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



testing of all parameters.

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description (continued)

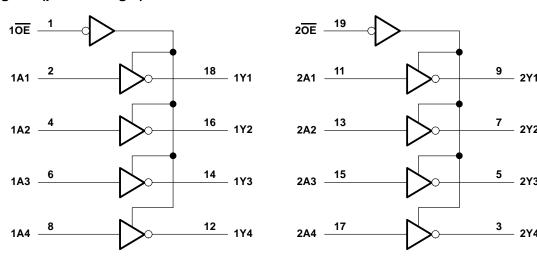
This device is fully specified for partial-power-down applications using Ioff. The Ioff circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

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.

FUNCTION TABLE (each buffer)

INP	UTS	OUTPUT
OE	Α	Y
L	Н	L
L	L	Н
н	Χ	Z

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 high-impedance or power	r-off state, V _O –0.5 V to 5.5 V
Current into any output in the low state, IO: SN54ABT240	96 mA
SN74ABT240A	128 mA
Input clamp current, I _{IK} (V _I < 0)	–18 mA
Output clamp current, I _{OK} (V _O < 0)	
Package thermal impedance, θ_{JA} (see Note 2): DB package	
DW package	58°C/W
N package	69°C/W
NS package	60°C/W
PW package	83°C/W
Storage temperature range, T _{sta}	—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 negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.

^{2.} The package thermal impedance is calculated in accordance with JESD 51-7.



recommended operating conditions (see Note 3)

			SN54A	BT240	SN74AB	T240A	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
loh	High-level output current			-24		-32	mA
loL	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: 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)

DADA	AETED	TEGT COMP	TEST CONDITIONS			;	SN54A	BT240	SN74AB	T240A	LINUT
PARAI	METER	I EST COND	IIIONS	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
		$V_{CC} = 4.5 \text{ V},$	I _{OH} = -3 mA	2.5			2.5		2.5		
\/ -		V _{CC} = 5 V,	I _{OH} = -3 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 mA	2*					2		
\/o:		V _{CC} = 4.5 V	I _{OL} = 48 mA			0.55		0.55			V
VOL		VCC = 4.5 V	I _{OL} = 64 mA			0.55*				0.55	V
V_{hys}					100						mV
lį		$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GND			±1		±1		±1	μΑ
lozh		$V_{CC} = 5.5 \text{ V},$	$V_0 = 2.7 \text{ V}$			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		$V_{CC} = 5.5 \text{ V}, V_{O} = 5.5 \text{ V}$	Outputs high			50		50		50	μΑ
1O [‡]		$V_{CC} = 5.5 \text{ V},$	V _O = 2.5 V	-50	-100	-180	-50	-180	-50	-180	mA
			Outputs high		1	250		250		250	μΑ
ICC		$V_{CC} = 5.5 \text{ V, I}_{O} = 0,$ $V_{I} = V_{CC} \text{ or GND}$	Outputs low		24	30		30		30	mA
	_	11 100 01 0115	Outputs disabled		0.5	250		250		250	μΑ
	Data	V _{CC} = 5.5 V, One input at 3.4 V,	Outputs enabled			1.5		1.5		1.5	
ΔI _{CC} §	inputs	Other inputs at V _{CC} or GND	Outputs disabled			0.05		0.05		0.05	mA
	Control inputs	V_{CC} = 5.5 V, One input at Other inputs at V_{CC} or GN				1.5		1.5		1.5	
Ci	C _j V _j = 2.5 V or 0.5 V				4						pF
Со		V _O = 2.5 V or 0.5 V			7.5						pF

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

[§] This is the increase in supply current for each input that is at the specified TTL voltage level rather than VCC or GND.



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

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

SN54ABT240, SN74ABT240A OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS

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

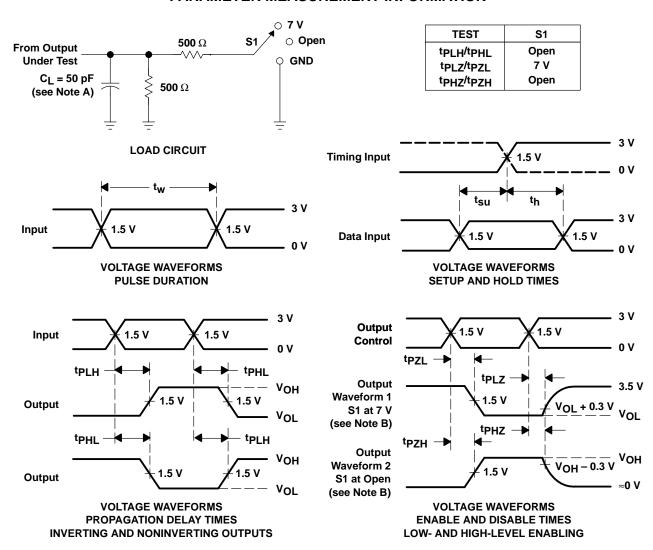
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V(T)	CC = 5 V 4 = 25°C	/, ;	MIN	MAX	UNIT
			MIN	TYP	MAX			
t _{PLH}	А	V	1	2.9	4.3	0.8	5.5	ns
^t PHL		'	1.6	3.1	4.5	1	5.5	110
^t PZH	ŌĒ	V	1.1	3.1	5.8	0.8	7.5	ns
tPZL	OE	l T	1.1	2.7	6.2	0.8	7.7	115
^t PHZ	ŌĒ	V	1.8	4.6	5.9	1.7	7	ns
^t PLZ	UE	1	1.6	4	5.9	1.3	7.2	113

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)	- OO - 7					
			MIN TYP MAX					
^t PLH	۸	V	1	2.9	4.1	1	4.8	ns
^t PHL	А	ī	1.6	3.1	4.6	1.6	4.8	
^t PZH	IL	V	1.1	3.1	4.7	1.1	5.2	ns
^t PZL	ŌĒ	ī	1.1	2.7	5.8	1.1	6.2	110
^t PHZ	ŌĒ	V	1.8	4.6	5.7	1.8	6.4	ne
^t PLZ	OE .	1	1.6	4	5.4	1.6	5.8	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, $Z_O = 50~\Omega$, $t_f \leq$ 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 Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9318801M2A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9318801M2A SNJ54ABT 240FK	Samples
5962-9318801MRA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9318801MR A SNJ54ABT240J	Samples
5962-9318801MSA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9318801MS A SNJ54ABT240W	Samples
SN74ABT240ADBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB240A	Samples
SN74ABT240ADW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT240A	Samples
SN74ABT240ADWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT240A	Samples
SN74ABT240AN	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT240AN	Samples
SN74ABT240ANSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT240A	Samples
SN74ABT240APW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB240A	Samples
SN74ABT240APWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB240A	Samples
SNJ54ABT240FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9318801M2A SNJ54ABT 240FK	Samples
SNJ54ABT240J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9318801MR A SNJ54ABT240J	Samples
SNJ54ABT240W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9318801MS A SNJ54ABT240W	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.



PACKAGE OPTION ADDENDUM

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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.

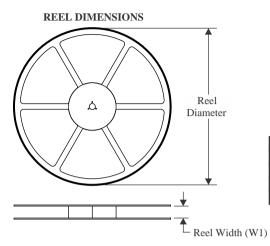
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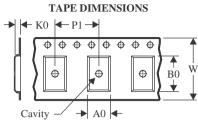
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PACKAGE MATERIALS INFORMATION

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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

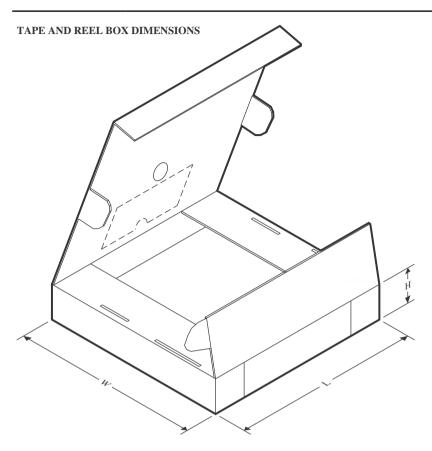


*All dimensions are nominal

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
SN74ABT240ADBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT240ADWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ABT240ANSR	so	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ABT240APWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1



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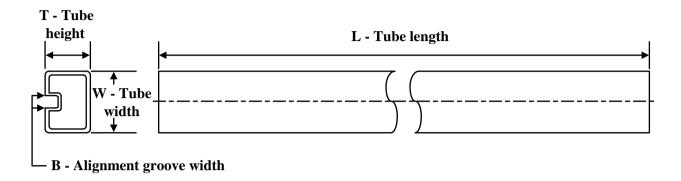
*All dimensions are nominal

7 til dillionorio di o mominar							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT240ADBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ABT240ADWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT240ANSR	so	NS	20	2000	367.0	367.0	45.0
SN74ABT240APWR	TSSOP	PW	20	2000	356.0	356.0	35.0

PACKAGE MATERIALS INFORMATION

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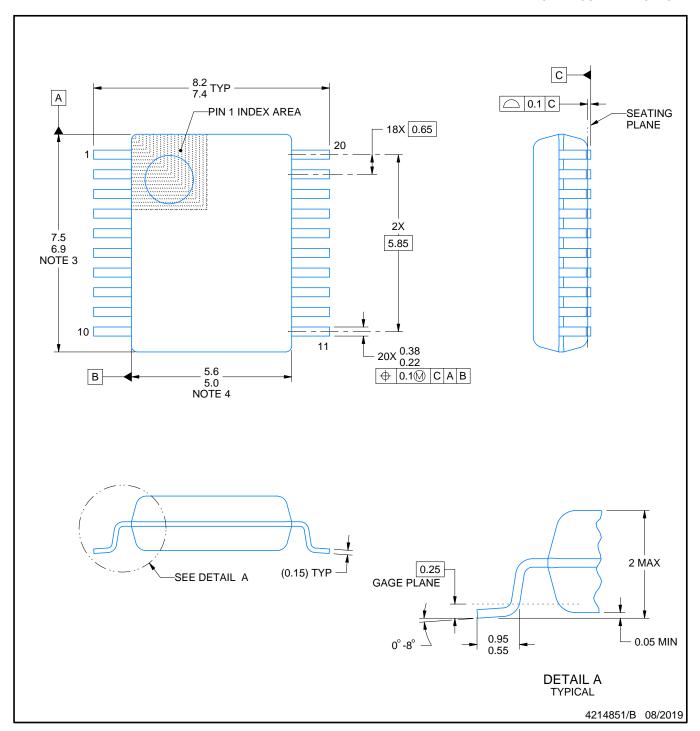
TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9318801M2A	FK	LCCC	20	1	506.98	12.06	2030	NA
5962-9318801MSA	W	CFP	20	1	506.98	26.16	6220	NA
SN74ABT240ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT240AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT240APW	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT240FK	FK	LCCC	20	1	506.98	12.06	2030	NA
SNJ54ABT240W	W	CFP	20	1	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.

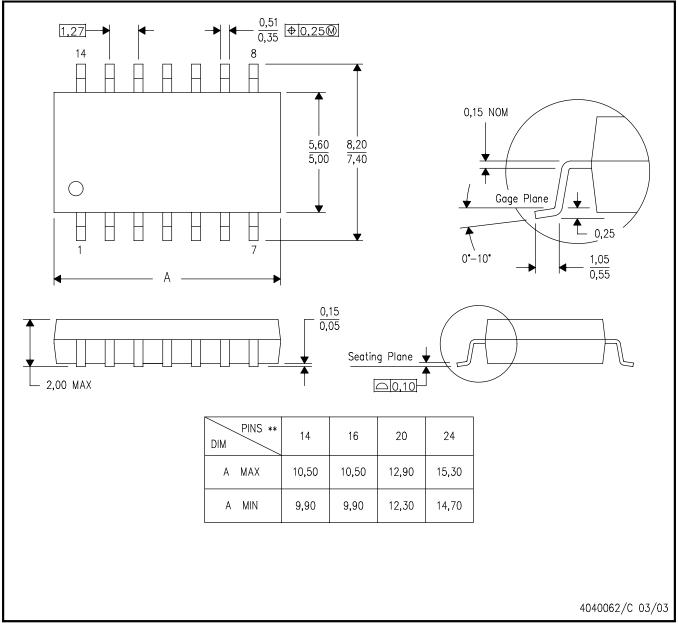


MECHANICAL DATA

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.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

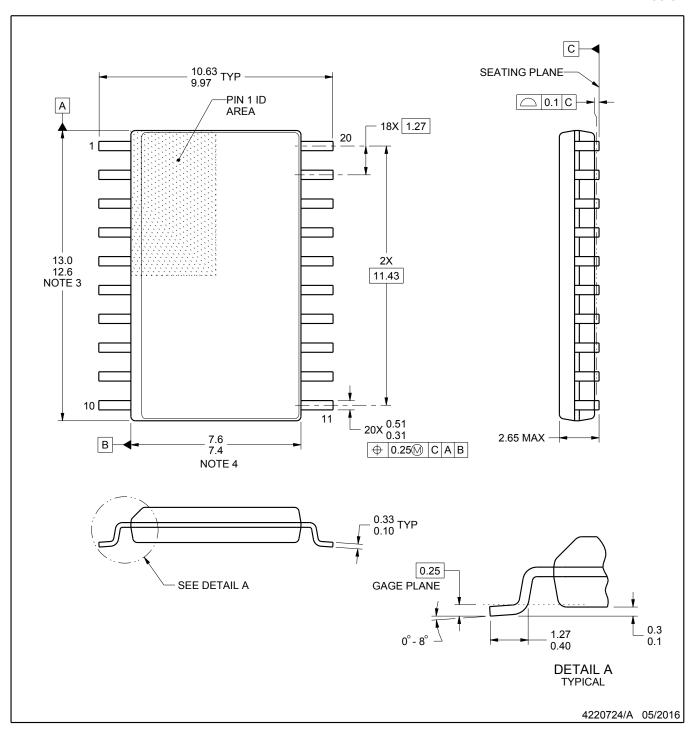


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.





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



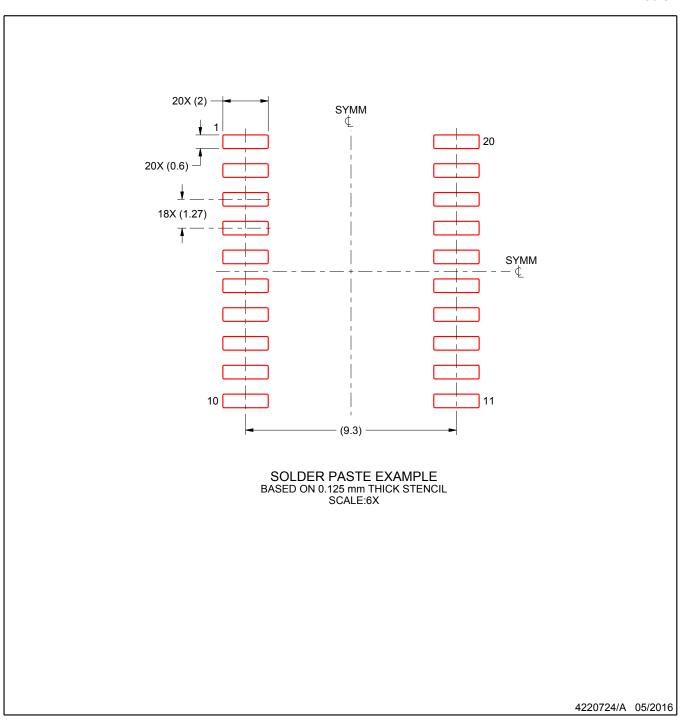
NOTES: (continued)

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



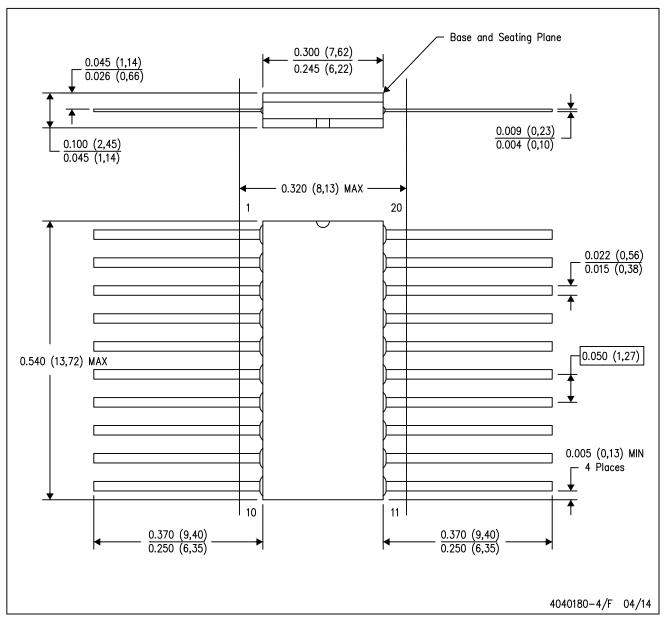
NOTES: (continued)

- 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



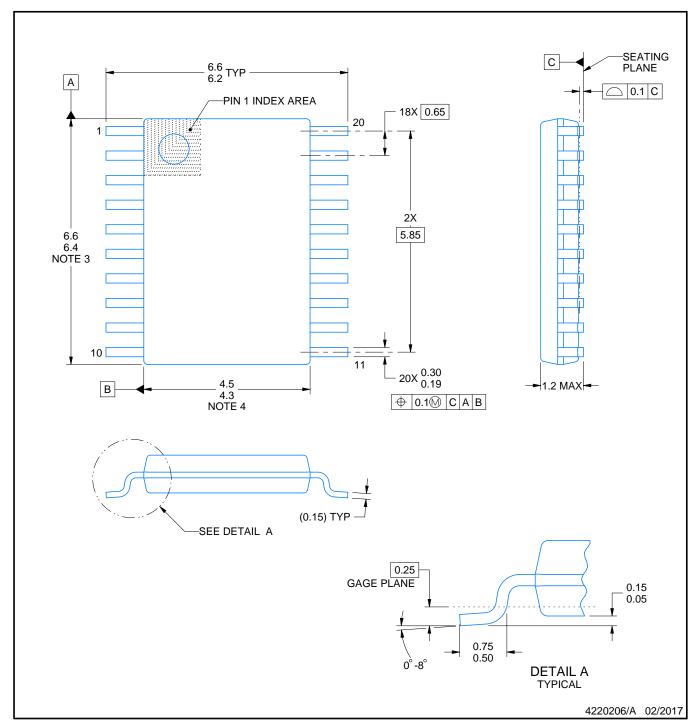
- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.

 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.





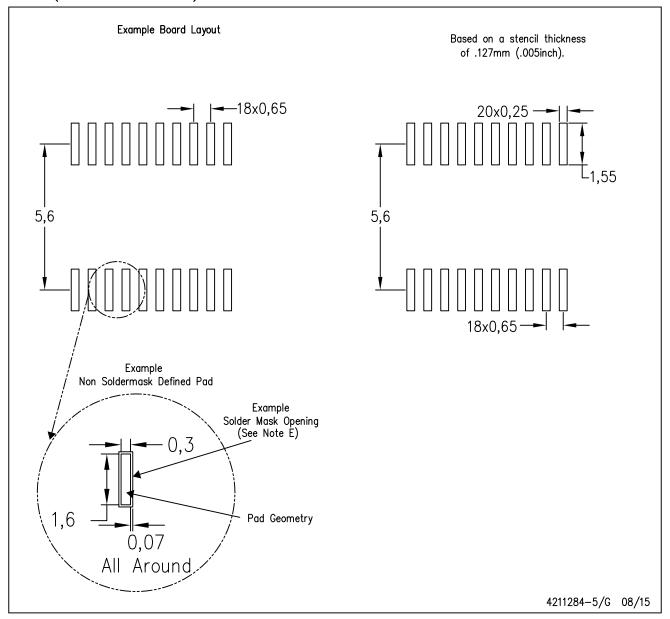
NOTES: (continued)

- 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.



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.



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