SCBS185B - FEBRUARY 1991 - REVISED JANUARY 1997

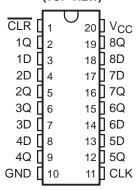
- State-of-the-Art EPIC-IIB™ BiCMOS Design Significantly Reduces Power Dissipation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD-17
- Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_A = 25°C
- High-Drive Outputs (-32-mA I_{OH}, 64-mA I_{OL})
- Package Options Include Plastic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

description

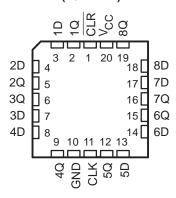
The 'ABT273 are 8-bit positive-edge-triggered D-type flip-flops with a direct clear (CLR) input. They are particularly suitable for implementing buffer and storage registers, shift registers, and pattern generators.

Information at the data (D) inputs meeting the setup time requirements is transferred to the Q outputs on the positive-going edge of the clock pulse. Clock triggering occurs at a particular voltage level and is not directly related to the transition time of the positive-going pulse. When the clock (CLK) input is at either the high or low level, the D input signal has no effect at the output.

SN54ABT273 . . . J OR W PACKAGE SN74ABT273 . . . DB, DW, N, OR PW PACKAGE (TOP VIEW)



SN54ABT273 . . . FK PACKAGE (TOP VIEW)



The SN54ABT273 is characterized for operation over the full military temperature range of -55° C to 125° C. The SN74ABT273 is characterized for operation from -40° C to 85° C.

FUNCTION TABLE (each flip-flop)

	INPUTS	OUTPUT	
CLR	CLK	Q	
L	Х	Χ	L
Н	\uparrow	Н	Н
Н	\uparrow	L	L
Н	H or L	Χ	Q_0



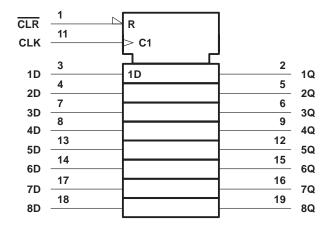
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

EPIC-IIB is a trademark of Texas Instruments Incorporated.



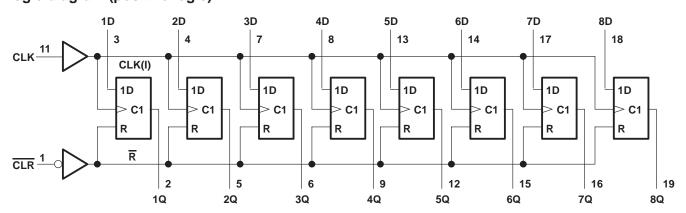
SCBS185B - FEBRUARY 1991 - REVISED JANUARY 1997

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)
Voltage range applied to any output in the high or power-off state, VO
Current into any output in the low state, IO: SN54ABT273
SN74ABT273
Input clamp current, I _{IK} (V _I < 0)
Output clamp current, I_{OK} ($V_O < 0$)
Package thermal impedance, θ _{JA} (see Note 2): DB package
DW package 97°C/W
N package 67°C/W
PW package
Storage temperature range, T _{stq} 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.

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	BT273	SN74A	BT273	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
VIL	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
lOL	Low-level output current		48		64	mA
Δt/Δν	Input transition rise or fall rate		10		10	ns/V
TA	Operating free-air temperature	- 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)

PARAMETER	Ι .	TEST CONDITIONS				2	SN54A	BT273	SN74A	BT273	UNIT
PARAMETER	'	TEST CONDITION	13	MIN	TYP [†]	MAX	MIN	MAX	MIN	MAX	UNIT
VIK	$V_{CC} = 4.5 \text{ V},$	I _I = -18 mA				-1.2		-1.2		-1.2	V
	$V_{CC} = 4.5 \text{ V},$	$I_{OH} = -3 \text{ mA}$	I _{OH} = -3 mA				2.5		2.5		
\ \/a++	V _{CC} = 5 V,	$I_{OH} = -3 \text{ mA}$		3			3		3		V
VOH	V _{CC} = 4.5 V	I _{OH} = -24 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 mA				0.55*				0.55	V
V _{hys}					100						mV
II	$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GI	ND			±1		±1		±1	μΑ
l _{off}	$V_{CC} = 0$,	V_I or $V_O \le 4.5$	V			±100				±100	μΑ
ICEX	$V_{CC} = 5.5 \text{ V},$	V _O = 5.5 V	Outputs high			50		50		50	μΑ
I _O ‡	$V_{CC} = 5.5 \text{ V},$	V _O = 2.5 V		-50	-100	-200§	-50	-200§	-50	-200§	mA
las	V _{CC} = 5.5 V, I _O	= 0,	Outputs high		1	400§		400§		400§	μΑ
Icc	$V_I = V_{CC}$ or GN	$V_{I} = V_{CC}$ or GND Outputs low				30		30		30	mA
ΔICC¶		V _{CC} = 5.5 V, One input at 3.4 V, Other inputs at V _{CC} or GND				1.5		1.5		1.5	mA
Ci	V _I = 2.5 V or 0.5	5 V			7						pF

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



[†] 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.

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

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

SN54ABT273, SN74ABT273 OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH CLEAR

SCBS185B - FEBRUARY 1991 - REVISED JANUARY 1997

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

			V _{CC} =	= 5 V, 25°C	SN54A	BT273	SN74A	BT273	UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	
fclock	Clock frequency		0	150	0	150	0	150	MHz
	Pulse duration	CLK high or low	3.3		3.3		3.3		ns
t _W	ruise duration	CLR low	3.3		3.3		3.3		115
		Data high	2		2		2		
t _{su}	Setup time before CLK↑	Data low	2.5		2.5		2.5		ns
		CLR high	2		2		2	·	
t _h	Hold time after CLK↑	Data high or low	1.2†		1.4†		1.2†		ns

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

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 _{CC} =	= 5 V, 25°C	SN54A	UNIT	
	(1141 01)	(0011 01)	MIN	MAX	MIN	MAX	
fmax			150		150		MHz
^t PLH	CLIV	Q	2.5	6	2.5	7	ns
t _{PHL}	CLK	ζ	3.3	6.8	3.3	7.5	115
t _{PHL}	CLR	Q	2.5	7.5†	2.5	8.2	ns

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

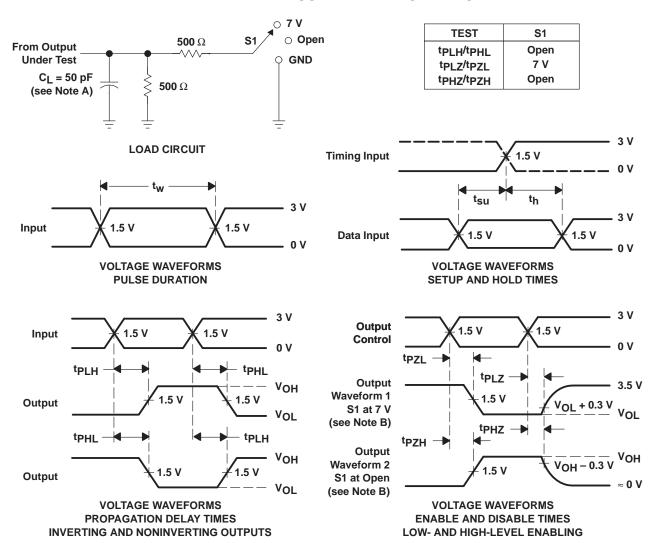
switching characteristics over recommended ranges of supply voltage and operating free-air temperature, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} =	= 5 V, 25°C	SN74A	UNIT	
	(INFOT)	(001701)	MIN	MAX	MIN	MAX	
fmax			150		150		MHz
t _{PLH}	CLK	Q	2.5	6	2.5	6.5	ns
^t PHL	CLN	ų ,	3.3	6.8	3.3	7.3	115
t _{PHL}	CLR	Q	2.5	6.7	2.5	7.4†	ns

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



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





www.ti.com 14-Jun-2022

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9321701Q2A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9321701Q2A SNJ54ABT 273FK	Samples
5962-9321701QRA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321701QR A SNJ54ABT273J	Samples
5962-9321701QSA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321701QS A SNJ54ABT273W	Samples
SN74ABT273DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB273	Samples
SN74ABT273DBRG4	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB273	Samples
SN74ABT273DW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT273	Samples
SN74ABT273DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT273	Samples
SN74ABT273DWRG4	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT273	Samples
SN74ABT273N	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT273N	Samples
SN74ABT273NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT273	Samples
SN74ABT273PW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB273	Samples
SN74ABT273PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB273	Samples
SNJ54ABT273FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9321701Q2A SNJ54ABT 273FK	Samples
SNJ54ABT273J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321701QR A SNJ54ABT273J	Samples
SNJ54ABT273W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9321701QS A SNJ54ABT273W	Samples



www.ti.com 14-Jun-2022

(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.

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 SN54ABT273, SN74ABT273:

Catalog: SN74ABT273

Military: SN54ABT273

NOTE: Qualified Version Definitions:



PACKAGE OPTION ADDENDUM

www.ti.com 14-Jun-2022

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

PACKAGE MATERIALS INFORMATION

www.ti.com 9-Aug-2022

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
SN74ABT273DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT273DWR	SOIC	DW	20	2000	330.0	24.4	10.9	13.3	2.7	12.0	24.0	Q1
SN74ABT273NSR	so	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ABT273PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1



www.ti.com 9-Aug-2022



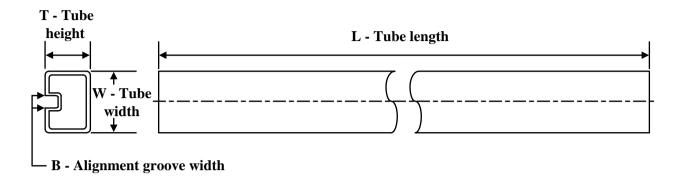
*All dimensions are nominal

7 till dillitoriolorio di o mominidi							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT273DBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ABT273DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT273NSR	so	NS	20	2000	367.0	367.0	45.0
SN74ABT273PWR	TSSOP	PW	20	2000	356.0	356.0	35.0

PACKAGE MATERIALS INFORMATION

www.ti.com 9-Aug-2022

TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9321701Q2A	FK	LCCC	20	1	506.98	12.06	2030	NA
5962-9321701QSA	W	CFP	20	1	506.98	26.16	6220	NA
SN74ABT273DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT273N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT273PW	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT273FK	FK	LCCC	20	1	506.98	12.06	2030	NA
SNJ54ABT273W	W	CFP	20	1	506.98	26.16	6220	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.



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 © 2022, Texas Instruments Incorporated