

description/ordering information

These 8-bit flip-flops feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

T _A	PACKAGE		ORDERABLE PART NUMBER	TOP-SIDE MARKING								
	PDIP – N	Tube	SN74ABT574AN	SN74ABT574AN								
	QFN – RGY	Tape and reel	SN74ABT574ARGYR	AB574A								
		Tube	SN74ABT574ADW									
–40°C to 85°C	SOIC – DW	Tape and reel	SN74ABT574ADWR	ABT574A								
	SOP – NS	Tape and reel	SN74ABT574ANSR	ABT574A								
	SSOP – DB	Tape and reel	SN74ABT574ADBR	AB574A								
	TOOOD DW	Tube	SN74ABT574APW	105744								
	TSSOP – PW	Tape and reel	SN74ABT574APWR	AB574A								
	VFBGA – GQN	Tone and real	SN74ABT574AGQNR	405744								
	VFBGA – ZQN (Pb-free)	Tape and reel	SN74ABT574AZQNR	AB574A								
	CDIP – J	Tube	SNJ54ABT574J	SNJ54ABT574J								
–55°C to 125°C	CFP – W	Tube	SNJ54ABT574W	SNJ54ABT574W								
	LCCC – FK	Tube	SNJ54ABT574FK	SNJ54ABT574FK								

ORDERING INFORMATION

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



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



Copyright © 2003, Texas Instruments Incorporated On products compliant to MIL-PRF-3853s, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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description/ordering information (continued)

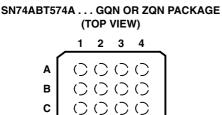
The eight flip-flops of the SN54ABT574 and SN74ABT574A are edge-triggered D-type flip-flops. On the positive transition of the clock (CLK) input, the Q outputs are set to the logic levels set up at the data (D) inputs.

A buffered output-enable (OE) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or the 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.

OE does not affect the internal operations of the flip-flops. 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, 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.

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



OOOO

OOOO

terminal assignments

	1	2	3	4
Α	1D	OE	V _{CC}	1Q
в	3D	3Q	2D	2Q
С	5D	4D	5Q	4Q
D	7D	7Q	6D	6Q
Е	GND	8D	CLK	8Q

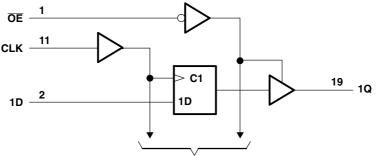
FUNCTION TABLE aaah fiin flan'

	•	тпр-тю	7)
	INPUTS	OUTPUT	
OE	CLK	D	Q
L	\uparrow	Н	Н
L	\uparrow	L	L
L	H or L	Х	Q ₀
Н	х	Х	Z

logic diagram (positive logic)

D

Е



To Seven Other Channels

Pin numbers shown are for the DB, DW, FK, J, N, NS, PW, RGY, and W packages.



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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Supply voltage range, V _{CC} Input voltage range, V _I (see Note 1)	
Voltage range applied to any output in the high or power-off state, V _O	
Current into any output in the low state, I _O : SN54ABT574	
SN74ABT574A	
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	70°C/W
(see Note 2): DW package	58°C/W
(see Note 2): GQN/ZQN package	78°C/W
(see Note 2): N package	69°C/W
(see Note 2): NS package	60°C/W
(see Note 2): PW package	83°C/W
(see Note 3): RGY package	37°C/W
Storage temperature range, T _{stg}	. −65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output 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.
- 3. The package thermal impedance is calculated in accordance with JESD 51-5.

recommended operating conditions (see Note 4)

			SN54A	BT574	SN74AB	T574A	
			MIN	MAX	MIN	MAX	UNIT
V _{CC}	Supply voltage		4.5	5.5	4.5	5.5	V
V _{IH}	High-level input voltage		2		2		V
V _{IL}	Low-level input voltage			0.8		0.8	V
VI	Input voltage		0	V_{CC}	0	V _{CC}	V
I _{OH}	High-level output current			-24		-32	mA
I _{OL}	Low-level output current			48		64	mA
$\Delta t/\Delta v$	Input transition rise or fall rate	Outputs enabled		5		5	ns/V
T _A	Operating free-air temperature		-55	125	-40	85	°C

NOTE 4: 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.



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

				Т	a = 25°C	;	SN54A	BT574	SN74AB	T574A	
PARAMETER		TEST CONDITI	ONS	MIN	TYP [†]	MAX	MIN	MAX	MIN	MAX	UNIT
V _{IK}	$V_{CC} = 4.5 V,$	l _l = –18 mA				-1.2		-1.2		-1.2	V
	$V_{CC} = 4.5 V,$	I _{OH} = –3 mA		2.5			2.5		2.5		
	$V_{\rm CC} = 5 \rm V,$	I _{OH} = -3 mA	3			3		3		.,	
V _{OH}	V 45V	I _{OH} = -24 mA		2			2				V
	V _{CC} = 4.5 V	I _{OH} = -32 mA		2*					2		
	V 45V	I _{OL} = 48 mA				0.55		0.55			
V _{OL}	V _{CC} = 4.5 V	I _{OL} = 64 mA				0.55*				0.55	V
V _{hys}					100						mV
II.	$V_{CC} = 5.5 V$,	V _I = V _{CC} or GN	1D			±1		±1		±1	μA
I _{OZH}	$V_{CC} = 5.5 V,$	$V_{O} = 2.7 V$				10 [‡]		10 [‡]		10 [‡]	μA
I _{OZL}	$V_{CC} = 5.5 V,$	$V_{O} = 0.5 V$				-10 [‡]		-10 [‡]		-10 [‡]	μA
I _{off}	$V_{CC} = 0,$	$V_{\rm I}$ or $V_{\rm O} \le 4.5$ V	V			±100		±500		±100	μA
ICEX	$V_{CC} = 5.5 V,$	V _O = 5.5 V	Outputs high			50		50		50	μA
I _O §	$V_{CC} = 5.5 V,$	V _O = 2.5 V		-50	-100	-180	-50	-180	-50	-180	mA
			Outputs high		1	250		250		250	μA
ICC	$V_{CC} = 5.5 V, I_{C}$ V ₁ = V _{CC} or G		Outputs low		24	30		30		30	mA
			Outputs disabled		0.5	250		250		250	μA
ΔI_{CC} ¶	V _{CC} = 5.5 V, C Other inputs a			1.5		1.5		1.5	mA		
Ci	V _I = 2.5 V or 0			3.5						pF	
Co	$V_0 = 2.5 V \text{ or } 0$	0.5 V			6.5						pF

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

[†] All typical values are at V_{CC} = 5 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.

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

				SN54A	BT574		
			V _{CC} = T _A = 2	₌ 5 V, 25°C	MIN	МАХ	UNIT
			MIN	MAX			
f _{clock}	Clock frequency			150		150	MHz
tw	Pulse duration, CLK high or low		3.3		3.3		ns
	Cature time, data hafara Ol K ^A	High	1.5		1.5		
t _{su}	Setup time, data before CLK [↑]	Low	2		2		ns
t _h	Hold time, data after CLK↑	High or low	2		2		ns



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

				SN74A	3T574A		
			V _{CC} = T _A = 1	= 5 V, 25°C	MIN	МАХ	UNIT
			MIN	MAX			
f _{clock}	Clock frequency			150		150	MHz
tw	Pulse duration, CLK high or low		3.3		3.3		ns
	Cature times data hafara OLK ¹	High	1		1		
t _{su}	Setup time, data before CLK [↑]	Low	1.5		1.5		ns
t _h	Hold time, data after CLK \uparrow	High or low	1.8†		1.8†		ns

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

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

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V. Т,	_{CC} = 5 V _A = 25°C	, ,	MIN	МАХ	UNIT
			MIN	TYP	MAX			
f _{max}			150	200		150		MHz
t _{PLH}		0	2.2	3.9	6.2	2.2	7	
t _{PHL}	CLK	Q	3	4.8	7	3	7.4	ns
t _{PZH}	<u>AE</u>	0	1	3.3	5	1	5.8	
t _{PZL}	ŌĒ	Q	2.5	4.7	5.9	2.5	7.2	ns
t _{PHZ}		0	2.4	4.9	6.2	2.4	7.2	
t _{PLZ}	ŌĒ	Q	2	4	5.8	2	6.9	ns

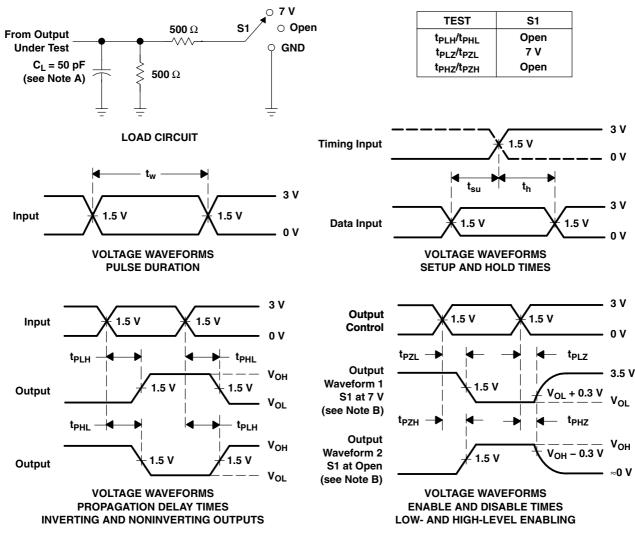
switching characteristics over recommended ranges of supply voltage and operating free-air temperature, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V. T	_{CC} = 5 V _A = 25°C		MIN	МАХ	UNIT
			MIN	TYP	MAX			
f _{max}			150	200		150		MHz
t _{PLH}		0	2.2	3.9	6.2	2.2	6.8	
t _{PHL}	CLK	Q	3	4.8	6.6	3	7.1	ns
t _{PZH}	<u>AE</u>	0	1	3.3	4.3	1	5.1	
t _{PZL}	ŌĒ	Q	2.1†	4.7	5.9	2.1†	6.7	ns
t _{PHZ}	<u>AE</u>		2.4	4.9	6.2	2.4	7	
t _{PLZ}	ŌĒ	Q	2	4	5.8	2	6.5	ns

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



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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 Ω , t_r \leq 2.5 ns, t_f \leq 2.5 ns.
- D. The outputs are measured one at a time with one transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9322001Q2A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9322001Q2A SNJ54ABT 574FK	Samples
5962-9322001QRA	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9322001QR A SNJ54ABT574J	Samples
5962-9322001QSA	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9322001QS A SNJ54ABT574W	Samples
SN74ABT574ADBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB574A	Samples
SN74ABT574ADW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT574A	Samples
SN74ABT574ADWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT574A	Samples
SN74ABT574ADWRE4	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT574A	Samples
SN74ABT574AN	ACTIVE	PDIP	Ν	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT574AN	Samples
SN74ABT574ANE4	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT574AN	Samples
SN74ABT574ANSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT574A	Samples
SN74ABT574APW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB574A	Samples
SN74ABT574APWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AB574A	Samples
SNJ54ABT574FK	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9322001Q2A SNJ54ABT 574FK	Samples
SNJ54ABT574J	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9322001QR A SNJ54ABT574J	Samples
SNJ54ABT574W	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9322001QS A SNJ54ABT574W	Samples



(1) The marketing status values are defined as follows:
 ACTIVE: Product device recommended for new designs.
 LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.
 NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.
 PREVIEW: Device has been announced but is not in production. Samples may or may not be available.
 OBSOLETE: TI has discontinued the production of the device.

⁽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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Texas

*All dimensions are nominal

STRUMENTS

TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



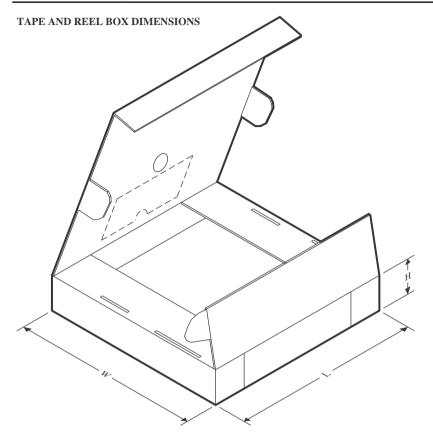
Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ABT574ADBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT574ADWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ABT574ANSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ABT574APWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1



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PACKAGE MATERIALS INFORMATION

5-Dec-2023



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT574ADBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ABT574ADWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT574ANSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ABT574APWR	TSSOP	PW	20	2000	356.0	356.0	35.0

TEXAS INSTRUMENTS

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TUBE



- B - Alignment groove width

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
5962-9322001Q2A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-9322001QSA	W	CFP	20	25	506.98	26.16	6220	NA
SN74ABT574ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT574AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT574ANE4	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT574APW	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT574FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54ABT574W	W	CFP	20	25	506.98	26.16	6220	NA

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

CERAMIC DUAL IN-LINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

FK 20

8.89 x 8.89, 1.27 mm pitch

GENERIC PACKAGE VIEW

LCCC - 2.03 mm max height

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.





N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



NOTES:

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



DW0020A



PACKAGE OUTLINE

SOIC - 2.65 mm max height

SOIC



NOTES:

- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm per side.
- 5. Reference JEDEC registration MS-013.



DW0020A

EXAMPLE BOARD LAYOUT

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



DW0020A

EXAMPLE STENCIL DESIGN

SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- NOTES: A. All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice. В.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 D. Index point is provided on cap for terminal identification only.
 E. Falls within Mil-Std 1835 GDFP2-F20



PW0020A



PACKAGE OUTLINE

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



PW0020A

EXAMPLE BOARD LAYOUT

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



PW0020A

EXAMPLE STENCIL DESIGN

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



DB0020A



PACKAGE OUTLINE

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-150.



DB0020A

EXAMPLE BOARD LAYOUT

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



DB0020A

EXAMPLE STENCIL DESIGN

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

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

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

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



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