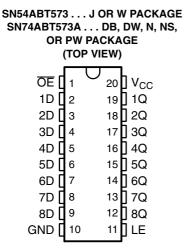
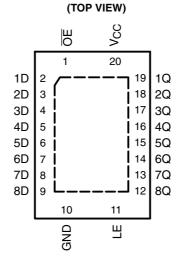
SN54ABT573, SN74ABT573A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

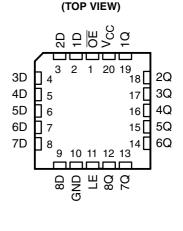
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- Typical V_{OLP} (Output Ground Bounce)
 1 V at V_{CC} = 5 V, T_A = 25°C
- High-Drive Outputs (-32-mA I_{OH}, 64-mA I_{OL})
- I_{off} Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 500 mA Per JEDEC Standard JESD 17
- ESD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





SN74ABT573A . . . RGY PACKAGE



SN54ABT573...FK PACKAGE

description/ordering information

These 8-bit latches 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.

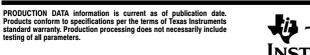
ORDERING INFORMATION

| T _A | PACKAGE | † | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|-----------------------|----------------|--------------------------|---------------------|
| | PDIP – N | Tube | SN74ABT573AN | SN74ABT573AN |
| 4000 1 0500 | QFN – RGY | Tape and reel | SN74ABT573ARGYR | AB573A |
| | 0010 PW | Tube | SN74ABT573ADW | ADT570A |
| | SOIC - DW | Tape and reel | SN74ABT573ADWR | ABT573A |
| | SOP - NS | Tape and reel | SN74ABT573ANSR | ABT573A |
| –40°C to 85°C | SSOP – DB | Tape and reel | SN74ABT573ADBR | AB573A |
| | TOOOD DW | Tube | SN74ABT573APW | AD570A |
| | TSSOP – PW | Tape and reel | SN74ABT573APWR | AB573A |
| | VFBGA – GQN | Towns and west | SN74ABT573AGQNR | AD570A |
| | VFBGA – ZQN (Pb-free) | Tape and reel | SN74ABT573AZQNR | AB573A |
| | CDIP – J | Tube | SNJ54ABT573J | SNJ54ABT573J |
| –55°C to 125°C | CFP – W | Tube | SNJ54ABT573W | SNJ54ABT573W |
| | LCCC – FK | Tube | SNJ54ABT573FK | SNJ54ABT573FK |

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



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.



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description/ordering information (continued)

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 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 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.

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.

SN74ABT573A . . . GQN OR ZQN PACKAGE (TOP VIEW)

| | | 1 | 2 | 3 | 4 | _ |
|---|---|------------|------------|------------|------------|---|
| Α | | \bigcirc | \bigcirc | \bigcirc | \bigcirc | |
| В | | \bigcirc | \bigcirc | \bigcirc | \bigcirc | |
| С | | \bigcirc | \bigcirc | \bigcirc | \bigcirc | |
| D | | \bigcirc | \bigcirc | \bigcirc | \bigcirc | |
| Ε | | \bigcirc | \bigcirc | \bigcirc | \bigcirc | |
| | ┖ | | | | | _ |

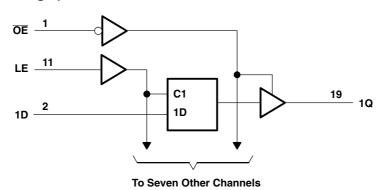
terminal assignments

| | 1 | 2 | 3 | 4 |
|---|-----|----|----------|----|
| Α | 1D | ŌĒ | V_{CC} | 1Q |
| В | 3D | 3Q | 2D | 2Q |
| С | 5D | 4D | 5Q | 4Q |
| D | 7D | 7Q | 6D | 6Q |
| Е | GND | 8D | LE | 8Q |

FUNCTION TABLE (each latch)

| | INPUTS | | OUTPUT |
|----|--------|---|--------|
| OE | LE | D | Q |
| L | Н | Н | Н |
| L | Н | L | L |
| L | L | Χ | Q_0 |
| Н | Х | Χ | Z |

logic diagram (positive logic)



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



SN54ABT573, SN74ABT573A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

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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 or power-off state, V _O | |
| Current into any output in the low state, I _O : SN54ABT573 | 96 mA |
| SN74ABT573A | |
| 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 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 | BT573 | SN74AB | T573A | LINIT |
|-----------------|------------------------------------|-------------------------------|-------|----------|--------|----------|-------|
| | | 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 |
| Δt/Δν | Input transition rise or fall rate | Outputs enabled | | 5 | | 5 | ns/V |
| T _A | Operating free-air temperature | perating free-air temperature | | | | | |

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.



SN54ABT573, SN74ABT573A OCTAL TRANSPARENT D-TYPE LATCHES WITH 3-STATE OUTPUTS

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

| | TEGT COMPLETIONS | | | | _A = 25°C | ; | SN54A | BT573 | SN74AB | T573A | LINUT |
|--------------------|--------------------------------------------------------------------------|----------------------------------|------------------|-----|---------------------|------------------|-----------------|------------------|-----------------|------------------|-------|
| PARAMETER | | TEST CONDITIO | NS | MIN | TYP† | MAX | MIN | MAX | MIN | MAX | UNIT |
| V _{IK} | $V_{CC} = 4.5 \text{ V},$ | I _I = -18 mA | | | | -1.2 | | -1.2 | | -1.2 | V |
| | $V_{CC} = 4.5 \text{ V},$ | $I_{OH} = -3 \text{ mA}$ | | 2.5 | | | 2.5 | | 2.5 | | |
| ., | $V_{CC} = 5 V$, | $I_{OH} = -3 \text{ mA}$ | | 3 | | | 3 | | 3 | | v |
| V_{OH} | V 45V | $I_{OH} = -24 \text{ mA}$ | | | | | 2 | | | | ٧ |
| | $V_{CC} = 4.5 \text{ V}$ | $I_{OH} = -32 \text{ mA}$ | | 2* | | | | | 2 | | |
| ., | V 45V | $I_{OL} = 48 \text{ mA}$ | | | | 0.55 | | 0.55 | | | ٧ |
| V_{OL} | $V_{CC} = 4.5 \text{ V}$ | $I_{OL} = 64 \text{ mA}$ | | | | 0.55* | | | | 0.55 | V |
| V_{hys} | | | | 100 | | | | | | mV | |
| I _I | $V_{CC} = 5.5 \text{ V},$ | $V_I = V_{CC}$ or GNI | | | ±1 | | ±1 | | ±1 | μΑ | |
| l _{OZH} | $V_{CC} = 5.5 \text{ V},$ | $V_0 = 2.7 \text{ V}$ | | | 10 [‡] | | 10 [‡] | | 10 [‡] | μΑ | |
| I _{OZL} | $V_{CC} = 5.5 \text{ V},$ | $V_{O} = 0.5 \text{ V}$ | | | | -10 [‡] | | -10 [‡] | | -10 [‡] | μΑ |
| I _{off} | V _{CC} = 0, | V_I or $V_O \le 4.5 \text{ V}$ | | | | ±100 | | | | ±100 | μΑ |
| I _{CEX} | $V_{CC} = 5.5 \text{ V},$ | $V_{O} = 5.5 \text{ V}$ | Outputs high | | | 50 | | 50 | | 50 | μΑ |
| I _O § | $V_{CC} = 5.5 \text{ V},$ | $V_0 = 2.5 \text{ V}$ | | -50 | -100 | -180 | -50 | -180 | -50 | -180 | mA |
| | ., | • | Outputs high | | 1 | 250 | | 250 | | 250 | μΑ |
| I _{CC} | $V_{CC} = 5.5 \text{ V}, I_{C}$ $V_{I} = V_{CC} \text{ or GN}$ | | Outputs low | | 24 | 30 | | 30 | | 30 | mA |
| | VI = VCC or Gr | ,,, | Outputs disabled | | 0.5 | 250 | | 250 | | 250 | μΑ |
| Δl _{CC} ¶ | 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 |
| C _i | $V_I = 2.5 \text{ V or } 0.$ | 5 V | | | 3.5 | | | | | | pF |
| Co | $V_0 = 2.5 \text{ V or } 0$ |).5 V | | | 6.5 | | | | | | pF |

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

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

| | | | | | MIN | MAX | UNIT | |
|-----------------|-----------------------------|------|---------|--|-----|-----|------|--|
| | | | MIN MAX | | | | | |
| t _w | Pulse duration, LE high | | 3.3 | | 3.3 | | ns | |
| | Setup time, data before LE↓ | High | 1.9 | | 2.5 | | | |
| t _{su} | Setup time, data before LEV | Low | 1.5 | | 2.5 | ns | | |
| t _h | Hold time, data after LE↓ | | 1 | | 2.5 | | ns | |



[†] 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.

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

| | | | | SN74A | 3T573A | | |
|-----------------|---------------------------------------|------|------------------|-------|------------------|------|----|
| | | | | | MAX | UNIT | |
| | | | MIN | MAX | | | |
| t _w | Pulse duration, LE high | | 3.3 | | 3.3 | | ns |
| | Cation times, data hafara I E | High | 1.9 | | 1.9 | |] |
| t _{su} | Setup time, data before LE↓ | Low | 1.5 | | 1.5 | ns | |
| t _h | Hold time, data after LE \downarrow | | 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, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

| PARAMETER | FROM (INPUT) | TO (OUTPUT) | | _{CC} = 5 V _A = 25°C | | MIN | MAX | UNIT |
|------------------|-----------------|----------------|-----|--------------------------------------------|-----|-----|-----|------|
| | | | MIN | TYP | MAX | | | |
| t _{PLH} | D | 0 | 1.9 | 3.2 | 5.4 | 1.4 | 6.4 | |
| t _{PHL} | | Q | 2.2 | 4.2 | 5.7 | 1.6 | 6.7 | ns |
| t _{PLH} | | 0 | 2.2 | 4 | 6.1 | 2 | 7.1 |] |
| t _{PHL} | LE | Q | 3.2 | 5.2 | 6.7 | 2.8 | 7.5 | ns |
| t _{PZH} | oe | 0 | 1.2 | 3.2 | 4.7 | 0.8 | 6.2 | |
| t _{PZL} | ŌĒ | Q | 2.7 | 4.7 | 6.2 | 2 | 7.2 | ns |
| t _{PHZ} | o- | 0 | 2.5 | 4.9 | 6.4 | 2.2 | 7.7 | |
| t _{PLZ} | ŌĒ | Q | 2 | 4.2 | 6 | 1.4 | 7 | ns |

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

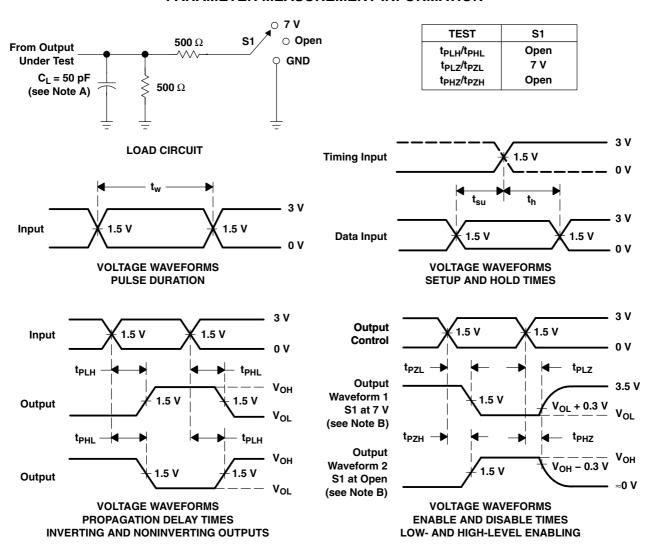
| PARAMETER | FROM (INPUT) | TO (OUTPUT) | V ₀ | _{CC} = 5 V _A = 25°C | , | MIN | MAX | UNIT |
|------------------|-----------------|----------------|----------------|--------------------------------------------|-----|------|------------------|------|
| | | | MIN | TYP | MAX | | | |
| t _{PLH} | _ | • | 1.9 | 3.2 | 5.4 | 1.9 | 5.9 | |
| t _{PHL} | D | Q | 2.2 | 4.2 | 5.7 | 2.2 | 6.2 | ns |
| t _{PLH} | | 0 | 2.2 | 4 | 6.1 | 2.2 | 6.6 | |
| t _{PHL} | LE | Q | 3.2 | 5.2 | 6.7 | 3.2 | 7.2 | ns |
| t _{PZH} | | • | 1.2 | 3.2 | 4.7 | 1.2 | 5.2 | |
| t _{PZL} | ŌĒ | Q | 2.5† | 4.7 | 6.2 | 2.5† | 6.7 | ns |
| t _{PHZ} | OF. | 0 | 2.5 | 4.9 | 6.4 | 2.5 | 7.1 [†] | 200 |
| t _{PLZ} | ŌĒ | Q | 2 | 4.2 | 6 | 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_{Q} = 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



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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 |
|------------------|------------|--------------|--------------------|------|----------------|---------------------|-------------------------------|---------------------|--------------|------------------------------------------|---------|
| 5962-9321901Q2A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962- 9321901Q2A SNJ54ABT 573FK | Samples |
| 5962-9321901QRA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962-9321901QR A SNJ54ABT573J | Samples |
| 5962-9321901QSA | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962-9321901QS A SNJ54ABT573W | Samples |
| SN74ABT573ADBR | ACTIVE | SSOP | DB | 20 | 2000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AB573A | Samples |
| SN74ABT573ADW | ACTIVE | SOIC | DW | 20 | 25 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | ABT573A | Samples |
| SN74ABT573ADWR | ACTIVE | SOIC | DW | 20 | 2000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | ABT573A | Samples |
| SN74ABT573AN | ACTIVE | PDIP | N | 20 | 20 | RoHS & Green | NIPDAU | N / A for Pkg Type | -40 to 85 | SN74ABT573AN | Samples |
| SN74ABT573APW | ACTIVE | TSSOP | PW | 20 | 70 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AB573A | Samples |
| SN74ABT573APWR | ACTIVE | TSSOP | PW | 20 | 2000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AB573A | Samples |
| SN74ABT573ARGYR | ACTIVE | VQFN | RGY | 20 | 3000 | RoHS & Green | NIPDAU | Level-2-260C-1 YEAR | -40 to 85 | AB573A | Samples |
| SNJ54ABT573FK | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962- 9321901Q2A SNJ54ABT 573FK | Samples |
| SNJ54ABT573J | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962-9321901QR A SNJ54ABT573J | Samples |
| SNJ54ABT573W | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 5962-9321901QS A SNJ54ABT573W | 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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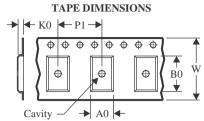
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PACKAGE MATERIALS INFORMATION

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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 |
|-----------------|-----------------|--------------------|----|------|--------------------------|--------------------------|------------|------------|------------|------------|-----------|------------------|
| SN74ABT573ADBR | SSOP | DB | 20 | 2000 | 330.0 | 16.4 | 8.2 | 7.5 | 2.5 | 12.0 | 16.0 | Q1 |
| SN74ABT573ADWR | SOIC | DW | 20 | 2000 | 330.0 | 24.4 | 10.8 | 13.3 | 2.7 | 12.0 | 24.0 | Q1 |
| SN74ABT573APWR | TSSOP | PW | 20 | 2000 | 330.0 | 16.4 | 6.95 | 7.1 | 1.6 | 8.0 | 16.0 | Q1 |
| SN74ABT573ARGYR | VQFN | RGY | 20 | 3000 | 330.0 | 12.4 | 3.8 | 4.8 | 1.6 | 8.0 | 12.0 | Q1 |



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*All dimensions are nominal

| 7 til dillionorio dio mominal | | | | | | | |
|-------------------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
| SN74ABT573ADBR | SSOP | DB | 20 | 2000 | 356.0 | 356.0 | 35.0 |
| SN74ABT573ADWR | SOIC | DW | 20 | 2000 | 367.0 | 367.0 | 45.0 |
| SN74ABT573APWR | TSSOP | PW | 20 | 2000 | 356.0 | 356.0 | 35.0 |
| SN74ABT573ARGYR | VQFN | RGY | 20 | 3000 | 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) |
|-----------------|--------------|--------------|------|-----|--------|--------|--------|--------|
| 5962-9321901Q2A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 5962-9321901QSA | W | CFP | 20 | 1 | 506.98 | 26.16 | 6220 | NA |
| SN74ABT573ADW | DW | SOIC | 20 | 25 | 507 | 12.83 | 5080 | 6.6 |
| SN74ABT573AN | N | PDIP | 20 | 20 | 506 | 13.97 | 11230 | 4.32 |
| SN74ABT573APW | PW | TSSOP | 20 | 70 | 530 | 10.2 | 3600 | 3.5 |
| SNJ54ABT573FK | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| SNJ54ABT573W | 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.



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.

3.5 x 4.5, 0.5 mm pitch

PLASTIC QUAD FGLATPACK - NO LEAD

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.





PLASTIC QUAD FLATPACK - NO LEAD



- 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. The package thermal pad must be soldered to the printed circuit board for thermal and mechanical performance.



PLASTIC QUAD FLATPACK - NO LEAD



NOTES: (continued)

- 4. This package is designed to be soldered to a thermal pad on the board. For more information, see Texas Instruments literature number SLUA271 (www.ti.com/lit/slua271).
- Vias are optional depending on application, refer to device data sheet. If any vias are implemented, refer to their locations shown on this view. It is recommended that vias under paste be filled, plugged or tented.



PLASTIC QUAD FLATPACK - NO LEAD



NOTES: (continued)

6. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.



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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