SN54HC574, SN74HC574 OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS

SCLS148F - DECEMBER 1982 - REVISED AUGUST 2003

- Wide Operating Voltage Range of 2 V to 6 V
- High-Current 3-State Noninverting Outputs Drive Bus Lines Directly or Up To 15 LSTTL Loads
- Low Power Consumption, 80-μA Max I_{CC}
- Typical t_{pd} = 22 ns
- ±6-mA Output Drive at 5 V
- Low Input Current of 1 μA Max
- Bus-Structured Pinout

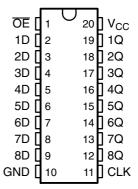
description/ordering information

These octal edge-triggered D-type flip-flops feature 3-state outputs designed specifically for bus driving. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

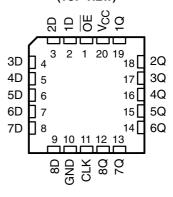
The eight flip-flops enter data on the low-to-high transition of the clock (CLK) input.

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 interface or pullup components.

SN54HC574 . . . J OR W PACKAGE SN74HC574 . . . DB, DW, N, NS, OR PW PACKAGE (TOP VIEW)



SN54HC574 . . . FK PACKAGE (TOP VIEW)



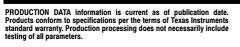
ORDERING INFORMATION

T _A	PACK	AGE†	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube of 20	SN74HC574N	SN74HC574N
	0010 PW	Tube of 25	SN74HC574DW	110574
	SOIC - DW	Reel of 2000	SN74HC574DWR	HC574
4000 1- 0500	SSOP – DB	Reel of 2000	SN74HC574DBR	HC574
–40°C to 85°C	SOP - NS	Reel of 2000	SN74HC574NSR	HC574
		Tube of 70	SN74HC574PW	
	TSSOP - PW	Reel of 2000	SN74HC574PWR	HC574
		Reel of 250	SN74HC574PWT	
	CDIP – J	Tube of 20	SNJ54HC574J	SNJ54HC574J
–55°C to 125°C	CFP – W	Tube of 85	SNJ54HC574W	SNJ54HC574W
	LCCC - FK	Tube of 55	SNJ54HC574FK	SNJ54HC574FK

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



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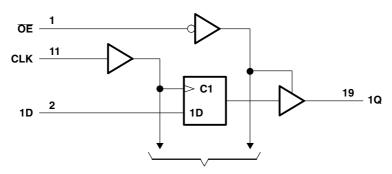
description/ordering information (continued)

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.

FUNCTION TABLE (each flip-flop)

	INPUTS		ОИТРИТ
ŌĒ	CLK	D	Q
L	↑	Н	Н
L	\uparrow	L	L
L	H or L	Χ	Q_0
Н	Χ	Χ	Z

logic diagram (positive logic)



To Seven Other Channels

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

Supply voltage range, V _{CC}		–0.5 V to 7 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$) (see	e Note 1)	±20 mA
Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CC})	(see Note 1)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})		
Continuous current through V _{CC} or GND		±70 mA
Package thermal impedance, θ _{JA} (see Note 2):		
	DW package	58°C/W
	N package	69°C/W
	NS package	60°C/W
	PW package	83°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 voltage ratings may be exceeded if the input and output current ratings are observed.
 - 2. The package thermal impedance is calculated in accordance with JESD 51-7.



recommended operating conditions (see Note 3)

			SI	N54HC57	' 4	18	174HC57	' 4	
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
V_{CC}	Supply voltage		2	5	6	2	5	6	V
		V _{CC} = 2 V	1.5			1.5			
V_{IH}	High-level input voltage	$V_{CC} = 4.5 \text{ V}$	3.15			3.15			V
		V _{CC} = 6 V	4.2			4.2			
		V _{CC} = 2 V			0.5			0.5	
V_{IL}	Low-level input voltage	V _{CC} = 4.5 V			1.35			1.35	V
		V _{CC} = 6 V			1.8			1.8	
V_{I}	Input voltage		0		V_{CC}	0		V_{CC}	V
Vo	Output voltage		0		V_{CC}	0		V_{CC}	V
		V _{CC} = 2 V			1000			1000	
$\Delta t/\Delta v$ Input transition rise/fall time	$V_{CC} = 4.5 \text{ V}$			500			500	ns	
		V _{CC} = 6 V			400			400	
T _A	Operating free-air temperature		-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)

24244555		ONDITIONS.		T	T _A = 25°C	;	SN54H	IC574	SN74H	C574	
PARAMETER	TEST C	ONDITIONS	V _{CC}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V	1.9	1.998		1.9		1.9		
		$I_{OH} = -20 \mu A$	4.5 V	4.4	4.499		4.4		4.4		
V _{OH}	$V_{I} = V_{IH}$ or V_{IL}		6 V	5.9	5.999		5.9		5.9		V
		$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
		$I_{OH} = -7.8 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
			2 V		0.002	0.1		0.1		0.1	
		$I_{OL} = 20 \mu A$	4.5 V		0.001	0.1		0.1		0.1	
V_{OL}	$V_I = V_{IH}$ or V_{IL}		6 V		0.001	0.1		0.1		0.1	V
		$I_{OL} = 6 \text{ mA}$	4.5 V		0.17	0.26		0.4		0.33	
		$I_{OL} = 7.8 \text{ mA}$	6 V		0.15	0.26		0.4		0.33	
l _l	$V_I = V_{CC}$ or 0		6 V		±0.1	±100		±1000		±1000	nA
I _{OZ}	$V_O = V_{CC}$ or 0		6 V		±0.01	±0.5		±10		±5	μΑ
I _{CC}	$V_I = V_{CC}$ or 0,	I _O = 0	6 V			8		160		80	μΑ
C _i			2 V to 6 V		3	10		10		10	pF

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timing requirements over recommended operating free-air temperature range (unless otherwise noted)

		.,	T _A = 2	25°C	SN54H	C574	SN74H	IC574	
		v _{cc}	MIN	MAX	MIN	MAX	MIN	MAX	UNIT
		2 V		6		4		5	
f _{clock}	Clock frequency	4.5 V		30		20		24	MHz
		6 V		38		24		28	
		2 V	80		120		100		
t _w	Pulse duration, CLK high or low	4.5 V	16		24		20		ns
		6 V	14		20		17		
		2 V	100		150		125		
t _{su}	Setup time, data before CLK↑	4.5 V	20		30		25		ns
		6 V	17		26		21		
		2 V	5		5		5		
t _h	Hold time, data after CLK↑	4.5 V	5		5		5		ns
		6 V	5		5		5		

switching characteristics over recommended operating free-air temperature range, C_L = 50 pF (unless otherwise noted) (see Figure 1)

	FROM	то		T,	₄ = 25°C	;	SN54H	IC574	SN74H	IC574					
PARAMETER	(INPUT)	(OUTPUT)	V _{CC}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT				
			2 V	6	11		4		5						
f _{max}			4.5 V	30	36		20		24		MHz				
			6 V	36	40		24		28						
			2 V		90	180		270		225					
t _{pd}	CLK	Any Q	4.5 V		28	36		54		45	ns				
			6 V		24	31		46		38					
			2 V		77	150		225		190					
t _{en}	ŌĒ	Any Q	4.5 V		26	30		45		38	ns				
			6 V		23	26		38		32					
			2 V		52	150		225		190					
t _{dis}	ŌĒ	Any Q	4.5 V		24	30		45		38	ns				
			6 V		22	26		38		32					
			2 V		28	60		90		75					
t _t	t _t			Any Q	Any Q	Any Q	4.5 V		8	12		18		15	ns
			6 V		6	10		15		13					

SN54HC574, SN74HC574 **OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS** WITH 3-STATE OUTPUTS SCLS148F - DECEMBER 1982 - REVISED AUGUST 2003

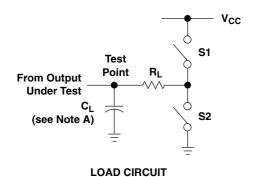
switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

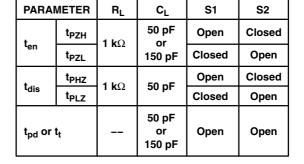
DADAMETED	FROM	то	.,	T,	_A = 25°C	;	SN54H	IC574	SN74H	C574												
PARAMETER	(INPUT)	(OUTPUT)	v _{cc}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT											
			2 V	6					5													
f _{max}			4.5 V	30					24		MHz											
			6 V	36					28													
			2 V		105	265		400		330												
t _{pd}	CLK	Any Q	4.5 V		36	53		80		66	ns											
			6 V		31	46		68		57												
			2 V		95	235		355		295												
t _{en}	ŌĒ	Any Q	Any Q	Any Q	Any Q	Any Q	4.5 V		32	47		71		59	ns							
			6 V		28	41		60		51												
			2 V		60	210		315		265												
t _t		Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	Any Q	4.5 V		17	42		63		53	ns
			6 V		14	36		53		45												

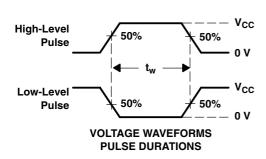
operating characteristics, $T_A = 25^{\circ}C$

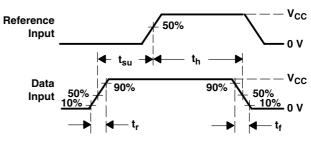
	PARAMETER	TEST CONDITIONS	TYP	UNIT
Cp	Power dissipation capacitance per flip-flop	No load	100	pF

PARAMETER MEASUREMENT INFORMATION

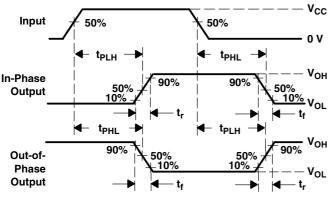


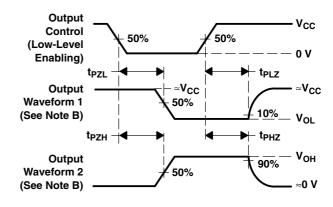






VOLTAGE WAVEFORMS
SETUP AND HOLD AND INPUT RISE AND FALL TIMES





VOLTAGE WAVEFORMS
PROPAGATION DELAY AND OUTPUT TRANSITION TIMES

VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

NOTES: A. C_L includes probe and test-fixture 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. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O = 50 \Omega$, $t_r = 6$ ns, $t_f = 6$ ns.
- D. For clock inputs, f_{max} is measured when the input duty cycle is 50%.
- E. The outputs are measured one at a time with one input transition per measurement.
- F. t_{PLZ} and t_{PHZ} are the same as t_{dis}.
- G. t_{PZL} and t_{PZH} are the same as t_{en} .
- H. t_{PLH} and t_{PHL} are the same as t_{pd}.

Figure 1. Load Circuit and Voltage Waveforms







26-Sep-2018

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
JM38510/65604BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 65604BRA	Samples
M38510/65604BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 65604BRA	Samples
SN54HC574J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54HC574J	Samples
SN74HC574APWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574A	Samples
SN74HC574DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74HC574N	Samples
SN74HC574NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	-40 to 85	SN74HC574N	Samples
SN74HC574NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574PW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574PWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574PWRG4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SN74HC574PWT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC574	Samples
SNJ54HC574FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	SNJ54HC 574FK	Samples



PACKAGE OPTION ADDENDUM

26-Sep-2018

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SNJ54HC574J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ54HC574J	Samples
SNJ54HC574W	ACTIVE	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ54HC574W	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/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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OTHER QUALIFIED VERSIONS OF SN54HC574, SN74HC574:



PACKAGE OPTION ADDENDUM

26-Sep-2018

• Catalog: SN74HC574

Military: SN54HC574

NOTE: Qualified Version Definitions:

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

PACKAGE MATERIALS INFORMATION

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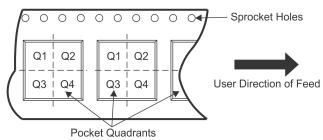
TAPE AND REEL INFORMATION





Α0	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
	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

"All dimensions are nomina	l											
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
SN74HC574DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74HC574DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74HC574DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74HC574NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74HC574PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

www.ti.com 20-Dec-2018



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC574DBR	SSOP	DB	20	2000	367.0	367.0	38.0
SN74HC574DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74HC574DWR	SOIC	DW	20	2000	364.0	361.0	36.0
SN74HC574NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74HC574PWR	TSSOP	PW	20	2000	364.0	364.0	27.0

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





SMALL OUTLINE PACKAGE



- 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.



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.



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

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.

PW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



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.



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



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