SDFS076A - D2932, MARCH 1987 - REVISED OCTOBER 1993

- Eight Latches in a Single Package
- 3-State Bus-Driving True Outputs
- Full Parallel Access for Loading
- Buffered Control Inputs
- Package Options Include Plastic Small-Outline (SOIC) and Shrink Small-Outline (SSOP) Packages, Ceramic Chip Carriers, and Plastic and Ceramic DIPs

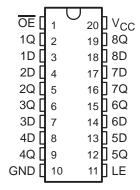
description

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.

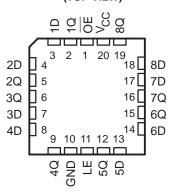
The eight latches of the 'F373 are transparent D-type latches. While the latch-enable (LE) input is high, the Q outputs will follow the data (D) inputs. When the latch enable is taken low, the Q outputs are latched at the logic levels set up at the D inputs.

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 a 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.

SN54F373 . . . J PACKAGE SN74F373 . . . DB, DW, OR N PACKAGE (TOP VIEW)



SN54F373 . . . FK PACKAGE (TOP VIEW)



The output-enable (\overline{OE}) input 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.

The SN74F373 is available in Tl's shrink small-outline package (DB), which provides the same I/O pin count and functionality of standard small-outline packages in less than half the printed-circuit-board area.

The SN54F373 is characterized for operation over the full military temperature range of -55° C to 125° C. The SN74F373 is characterized for operation from 0° C to 70° C.

FUNCTION TABLE (each latch)

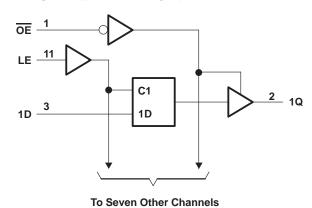
		INPUTS		ОИТРИТ
Γ	OE	LE	D	Q
Γ	L	Н	Н	Н
	L	Н	L	L
١	L	L	Χ	Q ₀
l	Н	X	Χ	Z



logic symbol†

OE ΕN LE C1 3 2 1D 1D 1Q 5 4 2D 2Q 7 6 3D **3Q** 8 9 4D **4Q** 13 12 5D 5Q 14 15 6D 6Q 17 16 7D 7Q 18 19 8D 8Q

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)	–1.2 V to 7 V
Input current range	–30 mA to 5 mA
Voltage range applied to any output in the disabled or power-off state	0.5 V to 5.5 V
Voltage range applied to any output in the high state	0.5 V to V _{CC}
Current into any output in the low state: SN54F373	40 mÅ
SN74F373	48 mA
Operating free-air temperature range: SN54F373	–55°C to 125°C
SN74F373	0°C to 70°C
Storage temperature range	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.

recommended operating conditions

		S	N54F37	3	SN74F373			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	UNII
Vcc	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			2			V
V_{IL}	Low-level input voltage			0.8			0.8	V
ΙΙΚ	Input clamp current			-18			-18	mA
ІОН	High-level output current			-3			-3	mA
loL	Low-level output current			20			24	mA
TA	Operating free-air temperature	-55		125	0		70	°C



[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

NOTE 1: The input voltage ratings may be exceeded provided the input current ratings are observed.

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

DADAMETED	TES	T CONDITIONS	s	N54F37	3	S	N74F373	3	UNIT
PARAMETER	153	ST CONDITIONS	MIN	TYP [†]	MAX	MIN	TYP [†]	MAX	UNII
VIK	$V_{CC} = 4.5 \text{ V},$	$I_{I} = -18 \text{ mA}$			-1.2			-1.2	V
	V _{CC} = 4.5 V	I _{OH} = – 1 mA	2.5	3.4		2.5	3.4		
Voн	VCC = 4.5 V	$I_{OH} = -3 \text{ mA}$	2.4	3.3		2.4	3.3		V
	$V_{CC} = 4.75 V,$	$I_{OH} = -1 \text{ mA to } -3 \text{ mA}$				2.7			
Vo	V _{CC} = 4.5 V	$I_{OL} = 20 \text{ mA}$		0.3	0.5				V
VOL	VCC = 4.5 V	$I_{OL} = 24 \text{ mA}$			0.35		0.5	v	
lozh	$V_{CC} = 5.5 \text{ V},$	$V_0 = 2.7 \text{ V}$			50			50	μΑ
lozL	$V_{CC} = 5.5 \text{ V},$	V _O = 0.5 V			-50			-50	μΑ
lį	$V_{CC} = 5.5 \text{ V},$	$V_I = 7 V$			0.1			0.1	mA
lін	$V_{CC} = 5.5 \text{ V},$	V _I = 2.7 V			20			20	μΑ
Ι _{ΙL}	$V_{CC} = 5.5 \text{ V},$	V _I = 0.5 V			- 0.6			- 0.6	mA
los [‡]	$V_{CC} = 5.5 \text{ V},$	$V_O = 0$	-60		-150	-60		-150	mA
Iccz	$V_{CC} = 5.5 \text{ V},$	See Note 2		38	55		38	55	mA

[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

NOTE 2: I_{CCZ} is measured with $\overline{\text{OE}}$ at 4.5 V and all other inputs grounded.

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

			V _{CC} = 5 V, T _A = 25°C SN54F373 'F373		F373	SN74I	F373	UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
t _W	Pulse duration, LE high	6		6		6		ns
t _{su}	Setup time, data before LE↓	2		2		2		ns
th	Hold time, data after LE↓	3		3		3		ns

switching characteristics (see Note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	C _I R _I	CC = 5 V L = 50 pl L = 500 s A = 25°C	F, Ω,	V _C C _L R _L T _A	UNIT				
		, ,		′F373			F373	SN74	F373		
			MIN	TYP	MAX	MIN	MAX	MIN	MAX		
t _{PLH}	D	_	2.2	4.9	7	2.2	8.5	2.2	8	ns	
^t PHL		Q	1.2	3.3	5	1.2	7	1.2	6		
^t PLH	LE	_	4.2	8.6	11.5	4.2	15	4.2	13	ns	
^t PHL	LC	Q	2.2	4.8	7	2.2	8.5	2.2	8	115	
^t PZH	ŌĒ	_	1.2	4.6	11	1.2	13.5	1.2	12	ns	
tPZL] OE	Q	1.2	5.2	7.5	1.2	10	1.2	8.5	115	
^t PHZ	ŌĒ	Q	1.2	4.1	6.5	1.2	10	1.2	7.5	ne	
^t PLZ		~	1.2	3.4	6	1.2	7	1.2	6	ns	

§ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions. NOTE 3: Load circuits and waveforms are shown in Section 1.



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





22-Feb-2014

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
5962-9758901Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9758901Q2A SNJ54F 373FK	Samples
5962-9758901QRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9758901QR A SNJ54F373J	Samples
5962-9758901QSA	ACTIVE	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9758901QS A SNJ54F373W	Samples
JM38510/34601B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	JM38510/ 34601B2A	Samples
JM38510/34601BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 34601BRA	Samples
JM38510/34601BSA	ACTIVE	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 34601BSA	Samples
M38510/34601B2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	JM38510/ 34601B2A	Samples
M38510/34601BRA	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 34601BRA	Samples
M38510/34601BSA	ACTIVE	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 34601BSA	Samples
SN54F373J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54F373J	Samples
SN74F373DBLE	OBSOLET	E SSOP	DB	20		TBD	Call TI	Call TI	0 to 70		
SN74F373DBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373DBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373DBRG4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373DW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373DWG4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples



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PACKAGE OPTION ADDENDUM

22-Feb-2014

Orderable Device	Status	Package Type		Pins		Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74F373DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	F373	Samples
SN74F373N	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74F373N	Samples
SN74F373N3	OBSOLETE	PDIP	N	20		TBD	Call TI	Call TI	0 to 70		
SN74F373NE4	ACTIVE	PDIP	N	20	20	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74F373N	Samples
SN74F373NSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74F373	Samples
SN74F373NSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74F373	Samples
SN74F373NSRG4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74F373	Samples
SNJ54F373FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 9758901Q2A SNJ54F 373FK	Samples
SNJ54F373J	ACTIVE	CDIP	J	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9758901QR A SNJ54F373J	Samples
SNJ54F373W	ACTIVE	CFP	W	20	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-9758901QS A SNJ54F373W	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.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.





22-Feb-2014

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above. **Green (RoHS & no Sb/Br):** TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight

in homogeneous material)

- (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 SN54F373, SN74F373:

Catalog: SN74F373

Military: SN54F373

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





	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

Device	Package	Package	Pins	SPQ	Reel	Reel	Α0	В0	K0	P1	W	Pin1
	Туре	Drawing			Diameter (mm)		(mm)	(mm)	(mm)	(mm)	(mm)	Quadrant
SN74F373DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74F373DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.0	2.7	12.0	24.0	Q1
SN74F373NSR	SO	NS	20	2000	330.0	24.4	8.2	13.0	2.5	12.0	24.0	Q1

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*All dimensions are nominal

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Device	Package Type	Package Drawing	ackage Drawing Pins		Length (mm)	Width (mm)	Height (mm)	
SN74F373DBR	SSOP	DB	20	2000	367.0	367.0	38.0	
SN74F373DWR	SOIC	DW	20	2000	367.0	367.0	45.0	
SN74F373NSR	SO	NS	20	2000	367.0	367.0	45.0	

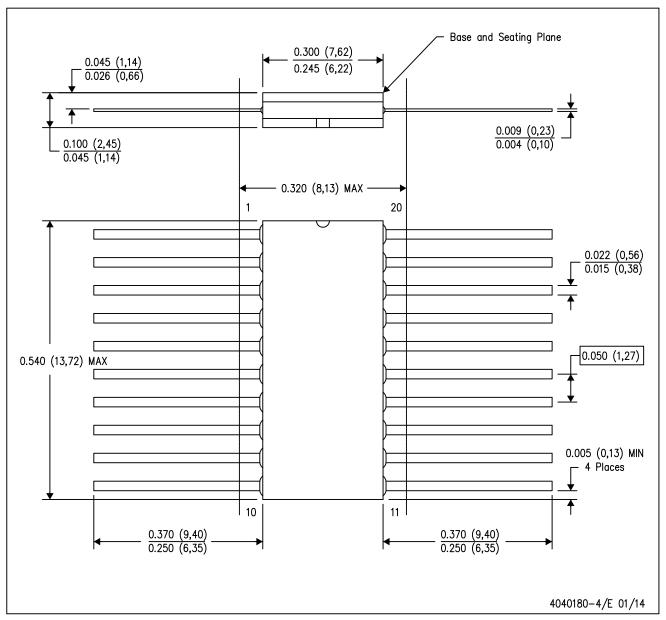
14 LEADS SHOWN



- 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.

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.

 This package can be hermetically sealed with a ceramic lid using glass frit.

 Index point is provided on cap for terminal identification only. C.
- E. Falls within Mil-Std 1835 GDFP2-F20



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



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.



DW (R-PDSO-G20)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MS-013 variation AC.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



NOTES: 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.

D. Falls within JEDEC MO-150

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.



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Products Applications

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DSP **Energy and Lighting** dsp.ti.com www.ti.com/energy Clocks and Timers www.ti.com/clocks Industrial www.ti.com/industrial Interface interface.ti.com Medical www.ti.com/medical logic.ti.com Logic Security www.ti.com/security

Power Mgmt power.ti.com Space, Avionics and Defense www.ti.com/space-avionics-defense

Microcontrollers <u>microcontroller.ti.com</u> Video and Imaging <u>www.ti.com/video</u>

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OMAP Applications Processors <u>www.ti.com/omap</u> TI E2E Community <u>e2e.ti.com</u>

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