

DATA SHEET

74AHC574; 74AHCT574

Octal D-type flip-flop; positive
edge-trigger; 3-state

Product specification
File under Integrated Circuits, IC06

1999 Jun 16

Octal D-type flip-flop; positive edge-trigger; 3-state**74AHC574;
74AHCT574****FEATURES**

- 3-state non-inverting outputs for bus oriented applications
- 8-bit positive, edge-triggered register
- ESD protection:
HBM EIA/JESD22-A114-A exceeds 2000 V
MM EIA/JESD22-A115-A exceeds 200 V
- Independent register and 3-state buffer operation
- Common 3-state output enable input
- Output capability; bus driver
- I_{CC} category: MSI
- For AHC only:
operates with CMOS input levels
- For AHCT only:
operates with TTL input levels
- Specified from
−40 to +85 and +125 °C.

DESCRIPTION

The 74AHC/AHCT574 are high-speed Si-gate CMOS devices and are pin compatible with low power Schottky TTL (LSTTL). They are specified in compliance with JEDEC standard no. 7A.

The 74AHC/AHCT574 are octal D-type flip-flops featuring separate D-type inputs for each flip-flop and 3-state outputs for bus oriented applications. A clock (CP) and an output enable ($\overline{OE}$) input are common to all flip-flops.

The 8 flip-flops will store the state of their individual D-inputs that meet the set-up and hold times requirements on the LOW-to-HIGH CP transition.

When $\overline{OE}$ is LOW the contents of the 8 flip-flops are available at the outputs. When $\overline{OE}$ is HIGH, the outputs go to the high-impedance OFF-state. Operation of the $\overline{OE}$ input does not affect the state of the flip-flops.

The '574' is functionally identical to the '564', but has non-inverting outputs. The '574' is functionally identical to the '374', but has a different pinning.

QUICK REFERENCE DATA

GND = 0 V; T_{amb} = 25 °C; t_r = t_f ≤ 3.0 ns.

SYMBOL	PARAMETER	CONDITIONS	TYPICAL		UNIT
			AHC	AHCT	
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	C _L = 15 pF; V _{CC} = 5 V	4.4	4.4	ns
f _{max}	maximum clock frequency	C _L = 15 pF; V _{CC} = 5 V	130	130	MHz
C _I	input capacitance	V _I = V _{CC} or GND	4.0	4.0	pF
C _O	output capacitance		4.0	4.0	pF
C _{PD}	power dissipation capacitance	C _L = 50 pF; f = 1 MHz; notes 1 and 2	10	12	pF

Notes

1. C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

$$P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o) \text{ where:}$$

f_i = input frequency in MHz;

f_o = output frequency in MHz;

∑ (C_L × V_{CC}² × f_o) = sum of outputs;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in Volts.

2. The condition is V_I = GND to V_{CC}.

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FUNCTION TABLE

See note 1.

OPERATING MODES	INPUTS			INTERNAL FLIP-FLOPS	OUTPUTS Q ₀ to Q ₇
	$\overline{\text{OE}}$	CP	D _n		
Load and read register	L	↑	l	L	L
	L	↑	h	H	H
Load register and disable outputs	H	↑	l	L	Z
	H	↑	h	H	Z

Note

- H = HIGH voltage level;
h = HIGH voltage level one set-up time prior to the LOW-to-HIGH CP transition;
L = LOW voltage level;
l = LOW voltage level one set-up time prior to the LOW-to-HIGH CP transition;
Z = high-impedance OFF-state;
↑ = LOW-to-HIGH CP transition.

ORDERING INFORMATION

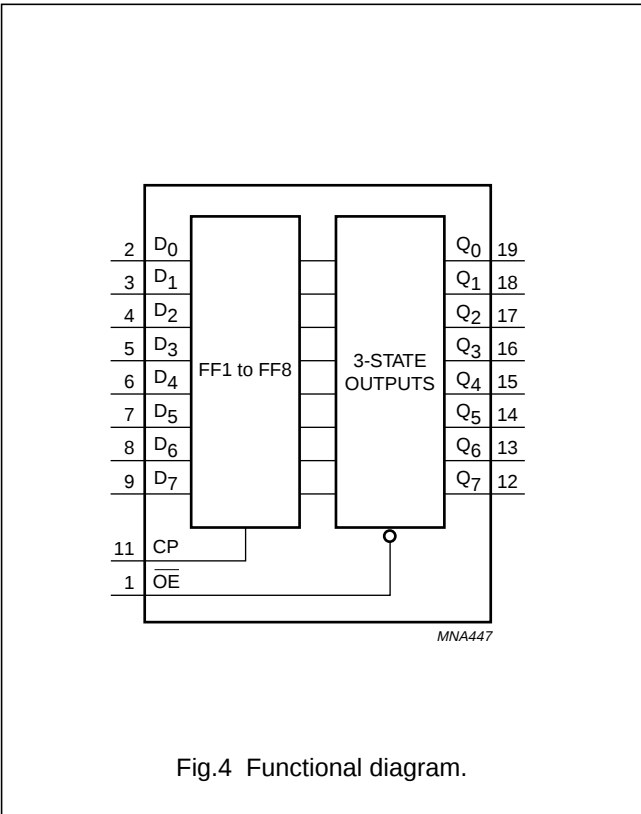
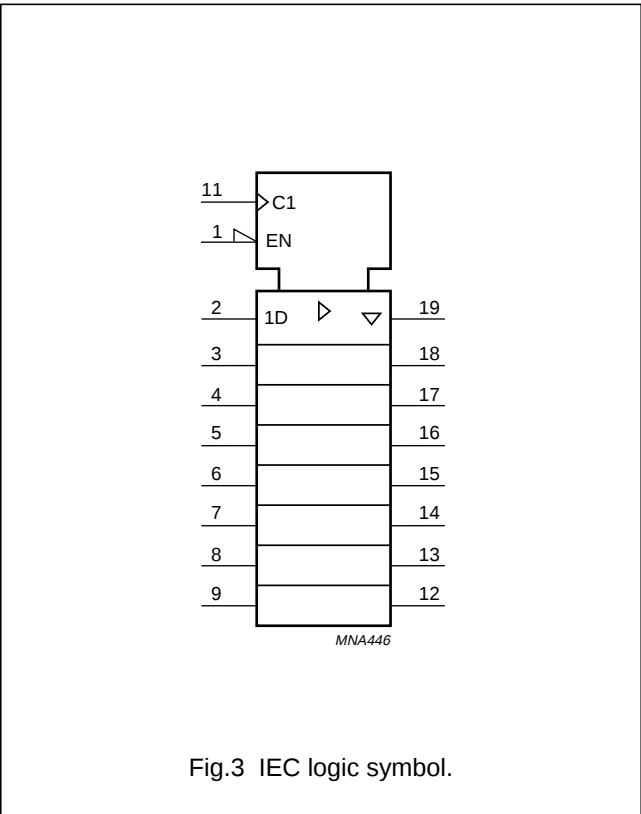
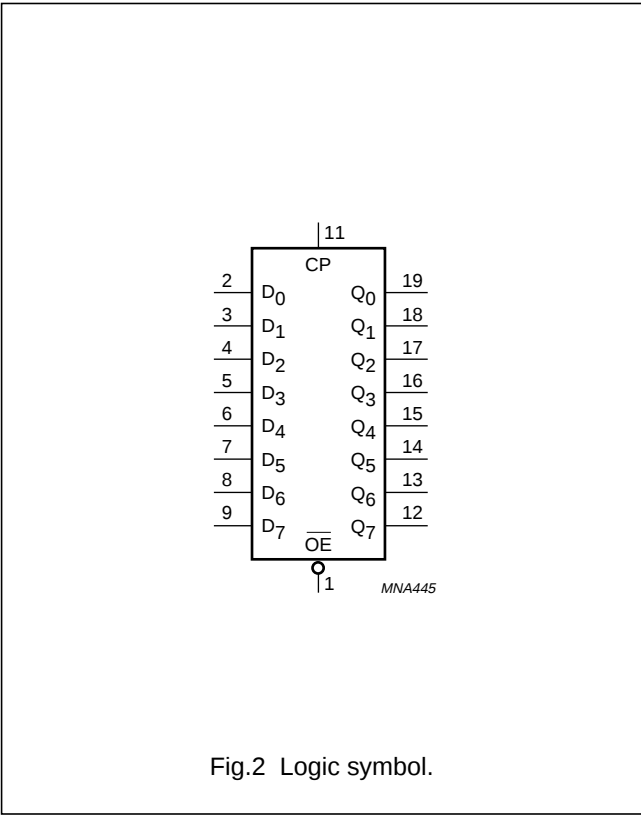
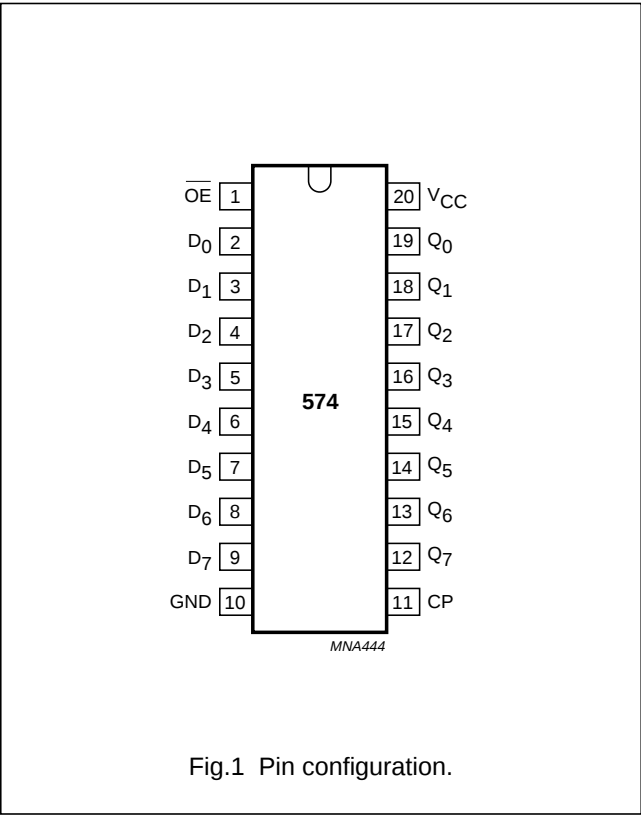
OUTSIDE NORTH AMERICA	NORTH AMERICA	PACKAGES			
		PINS	PACKAGE	MATERIAL	CODE
74AHC574D	74AHC574D	20	SO	plastic	SOT163-1
74AHC574PW	74AHC574PW DH	20	TSSOP	plastic	SOT360-1
74AHCT574D	74AHCT574D	20	SO	plastic	SOT163-1
74AHCT574PW	74AHCT574PW DH	20	TSSOP	plastic	SOT360-1

PINNING

PIN	SYMBOL	DESCRIPTION
1	$\overline{\text{OE}}$	3-state output enable input (active LOW)
2, 3, 4, 5, 6, 7, 8 and 9	D ₀ to D ₇	data inputs
10	GND	ground (0 V)
11	CP	clock input (LOW-to-HIGH, edge triggered)
19, 18, 17, 16, 15, 14, 13 and 12	Q ₀ to Q ₇	3-state flip-flop outputs
20	V _{CC}	DC supply voltage

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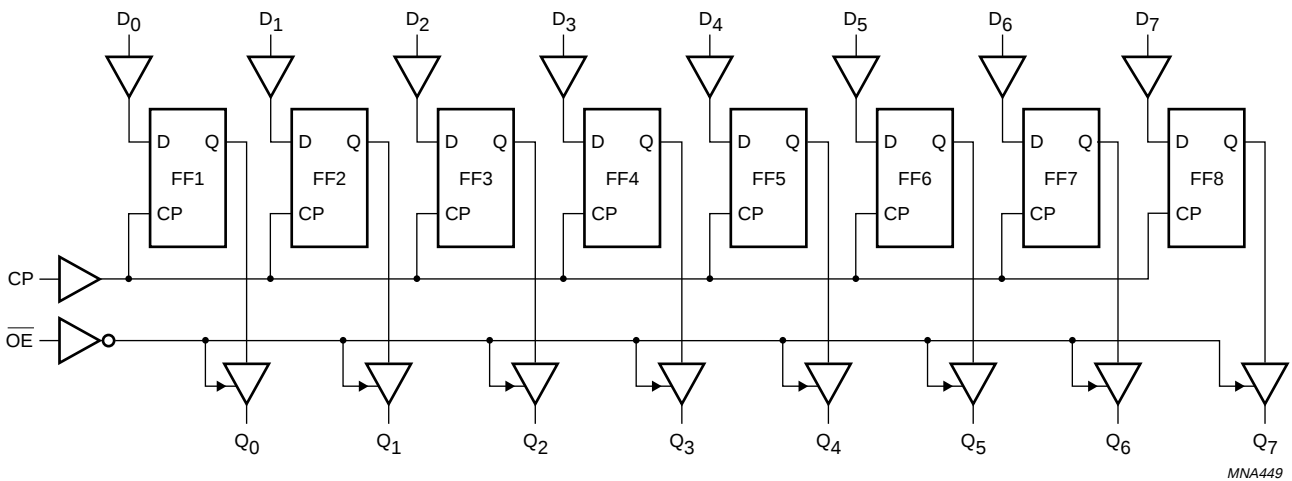


Fig.5 Logic diagram.

Octal D-type flip-flop; positive edge-trigger; 3-state

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RECOMMENDED OPERATING CONDITIONS

SYMBOL	PARAMETER	CONDITIONS	74AHC			74AHCT			UNIT
			MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
V_{CC}	DC supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
V_I	input voltage		0	–	5.5	0	–	5.5	V
V_O	output voltage		0	–	V_{CC}	0	–	V_{CC}	V
T_{amb}	operating ambient temperature range	see DC and AC characteristics per device	–40	+25	+85	–40	+25	+85	°C
			–40	+25	+125	–40	+25	+125	°C
$t_r, t_f (\Delta t/\Delta f)$	input rise and fall times except for Schmitt-trigger inputs	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	–	–	100	–	–	–	ns/V
		$V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$	–	–	20	–	–	20	ns/V

LIMITING VALUES

In accordance with the Absolute Maximum Rating System (IEC 134); voltages are referenced to GND (ground = 0 V).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V_{CC}	DC supply voltage		–0.5	+7.0	V
V_I	input voltage range		–0.5	+7.0	V
I_{IK}	DC input diode current	$V_I < -0.5 \text{ V}$; note 1	–	–20	mA
I_{OK}	DC output diode current	$V_O < -0.5 \text{ V}$ or $V_O > V_{CC} + 0.5 \text{ V}$; note 1	–	± 20	mA
I_O	DC output source or sink current	$-0.5 \text{ V} < V_O < V_{CC} + 0.5 \text{ V}$	–	± 25	mA
I_{CC}	DC V_{CC} or GND current		–	± 75	mA
T_{stg}	storage temperature range		–65	+150	°C
P_D	power dissipation per package	for temperature range: –40 to +125 °C; note 2	–	500	mW

Notes

1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
2. For SO-packages: above 70 °C the value of P_D derates linearly with 8 mW/K.
For TSSOP-packages: above 60 °C the value of P_D derates linearly with 5.5 mW/K.

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DC CHARACTERISTICS

Family 74AHC

Over recommended operating conditions; voltage are referenced to GND (ground = 0 V).

SYMBOL	PARAMETER	TEST CONDITIONS		T _{amb} (°C)							UNIT
		OTHER	V _{CC} (V)	+25			–40 to +85		–40 to +125		
				MIN.	TYP.	MAX.	MIN.	MAX.	MIN.	MAX.	
V _{IH}	HIGH-level input voltage		2.0	1.5	–	–	1.5	–	1.5	–	V
			3.0	2.1	–	–	2.1	–	2.1	–	
			5.5	3.85	–	–	3.85	–	3.85	–	
V _{IL}	LOW-level input voltage		2.0	–	–	0.5	–	0.5	–	0.5	V
			3.0	–	–	0.9	–	0.9	–	0.9	
			5.5	–	–	1.65	–	1.65	–	1.65	
V _{OH}	HIGH-level output voltage; all outputs	V _I = V _{IH} or V _{IL} ; I _O = –50 μA	2.0	1.9	2.0	–	1.9	–	1.9	–	V
			3.0	2.9	3.0	–	2.9	–	2.9	–	
			4.5	4.4	4.5	–	4.4	–	4.4	–	
	HIGH-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = –4.0 mA	3.0	2.58	–	–	2.48	–	2.40	–	V
			V _I = V _{IH} or V _{IL} ; I _O = –8.0 mA	4.5	3.94	–	–	3.8	–	3.70	
V _{OL}	LOW-level output voltage; all outputs	V _I = V _{IH} or V _{IL} ; I _O = 50 μA	2.0	–	0	0.1	–	0.1	–	0.1	V
			3.0	–	0	0.1	–	0.1	–	0.1	
			4.5	–	0	0.1	–	0.1	–	0.1	
	LOW-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = 4.0 mA	3.0	–	–	0.36	–	0.44	–	0.55	V
			V _I = V _{IH} or V _{IL} ; I _O = 8.0 mA	4.5	–	–	0.36	–	0.44	–	
I _I	input leakage current	V _I = V _{CC} or GND	5.5	–	–	0.1	–	1.0	–	2.0	μA
I _{OZ}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND	5.5	–	–	±0.25	–	±2.5	–	±10.0	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	5.5	–	–	4.0	–	40	–	80	μA
C _I	input capacitance		–	–	3	10	–	10	–	10	pF

Octal D-type flip-flop; positive edge-trigger; 3-state

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Family 74AHCT

Over recommended operating conditions; voltage are referenced to GND (ground = 0 V).

SYMBOL	PARAMETER	TEST CONDITIONS		T _{amb} (°C)							UNIT
		OTHER	V _{CC} (V)	+25			–40 to +85		–40 to +125		
				MIN.	TYP.	MAX.	MIN.	MAX.	MIN.	MAX.	
V _{IH}	HIGH-level input voltage		4.5 to 5.5	2.0	–	–	2.0	–	2.0	–	V
V _{IL}	LOW-level input voltage		4.5 to 5.5	–	–	0.8	–	0.8	–	0.8	V
V _{OH}	HIGH-level output voltage; all outputs	V _I = V _{IH} or V _{IL} ; I _O = –50 μA	4.5	4.4	4.5	–	4.4	–	4.4	–	V
	HIGH-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = –8.0 mA	4.5	3.94	–	–	3.8	–	3.70	–	V
V _{OL}	LOW-level output voltage; all outputs	V _I = V _{IH} or V _{IL} ; I _O = 50 μA	4.5	–	0	0.1	–	0.1	–	0.1	V
	LOW-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = 8.0 mA	4.5	–	–	0.36	–	0.44	–	0.55	V
I _I	input leakage current	V _I = V _{IH} or V _{IL}	5.5	–	–	0.1	–	1.0	–	2.0	μA
I _{OZ}	3-state output OFF current	V _I = V _{IH} or V _{IL} ; V _O = V _{CC} or GND per input pin; other inputs at V _{CC} or GND; I _O = 0	5.5	–	–	±0.25	–	±2.5	–	±10.0	μA
I _{CC}	quiescent supply current	V _I = V _{CC} or GND; I _O = 0	5.5	–	–	4.0	–	40	–	80	μA
ΔI _{CC}	additional quiescent supply current per input pin	V _I = V _{CC} – 2.1 V other inputs at V _{CC} or GND; I _O = 0	4.5 to 5.5	–	–	1.35	–	1.5	–	1.5	mA
C _I	input capacitance		–	–	3	10	–	10	–	10	pF

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AC CHARACTERISTICS

Type 74AHC574

GND = 0 V; $t_r = t_f \leq 3.0$ ns.

SYMBOL	PARAMETER	TEST CONDITIONS			T _{amb} (°C)								UNIT
		WAVEFORMS	C _L	V _{CC} (V)	+25			−40 to +85		−40 to +125			
					MIN.	TYP.	MAX.	MIN.	MAX.	MIN.	MAX.		
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6, 8 and 9	15 pF	3.0 to 3.6	–	6.5 ⁽¹⁾	13.2	1.0	15.5	1.0	16.5	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9			–	5.7 ⁽¹⁾	12.8	1.0	15.0	1.0	16.0	ns	
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n				–	6.3 ⁽¹⁾	13.0	1.0	15.0	1.0	16.5	ns	
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6, 8 and 9	50 pF		–	9.3 ⁽¹⁾	16.7	1.0	19.0	1.0	21.0	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9			–	8.2 ⁽¹⁾	16.3	1.0	18.5	1.0	20.5	ns	
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n				–	9.1 ⁽¹⁾	15.0	1.0	17.0	1.0	19.0	ns	
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6, 8 and 9	15 pF	4.5 to 5.5	–	4.4 ⁽²⁾	8.6	1.0	10.0	1.0	11.0	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9			–	4.2 ⁽²⁾	9.0	1.0	10.5	1.0	11.5	ns	
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n				–	4.3 ⁽²⁾	9.0	1.0	10.5	1.0	11.5	ns	
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6, 8 and 9	50 pF		–	6.2 ⁽²⁾	10.6	1.0	12.0	1.0	13.5	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9			–	5.9 ⁽²⁾	11.0	1.0	12.5	1.0	14.0	ns	
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n				–	6.9 ⁽²⁾	10.1	1.0	11.5	1.0	13.0	ns	

Octal D-type flip-flop; positive edge-trigger; 3-state

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SYMBOL	PARAMETER	TEST CONDITIONS			T _{amb} (°C)							UNIT
		WAVEFORMS	C _L	V _{CC} (V)	+25			−40 to +85		−40 to +125		
					MIN.	TYP.	MAX.	MIN.	MAX.	MIN.	MAX.	
t _W	clock pulse width HIGH or LOW	see Figs 6 and 9	50 pF	3.0 to 3.6	5.0	–	–	5.0	–	5.0	–	ns
t _{su}	setup time D _n to CP	see Figs 8 and 9			3.5	–	–	3.5	–	3.5	–	ns
t _h	hold time D _n to CP				1.5	–	–	1.5	–	1.5	–	ns
f _{max}	maximum clock pulse frequency	see Figs 6 and 9			15 pF	4.5 to 5.5	50	75	–	45	–	45
			80	125			–	65	–	65	–	MHz
t _W	clock pulse width HIGH or LOW	see Figs 6 and 9	50 pF	4.5 to 5.5	5.0	–	–	5.0	–	5.0	–	ns
t _{su}	setup time D _n to CP	see Figs 8 and 9			3.0	–	–	3.0	–	3.0	–	ns
t _h	hold time D _n to CP				1.5	–	–	1.5	–	1.5	–	ns
f _{max}	maximum clock pulse frequency	see Figs 6 and 9			15 pF	85	115	–	75	–	75	–
			130	180		–	110	–	110	–	MHz	

Notes

1. Typical values at V_{CC} = 3.3 V.
2. Typical values at V_{CC} = 5.0 V.

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Type 74AHCT574

GND = 0 V; $t_r = t_f \leq 3.0$ ns.

SYMBOL	PARAMETER	TEST CONDITIONS			T _{amb} (°C)								UNIT
		WAVEFORMS	C _L	V _{CC} (V)	+25			−40 to +85		−40 to +125			
					MIN.	TYP.	MAX.	MIN.	MAX.	MIN.	MAX.		
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6 and 9	15 pF	4.5 to 5.5	–	4.4 ⁽¹⁾	8.6	1.0	10.0	1.0	11.0	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9	–		4.3 ⁽¹⁾	9.0	1.0	10.5	1.0	11.5	ns		
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n		–		4.3 ⁽¹⁾	9.0	1.0	10.5	1.0	11.5	ns		
t _{PHL} /t _{PLH}	propagation delay CP to Q _n	see Figs 6 and 9	50 pF		–	6.3 ⁽¹⁾	10.6	1.0	12.0	1.0	13.5	ns	
t _{PZH} /t _{PZL}	3-state output enable time OE to Q _n	see Figs 7 and 9	–		6.1 ⁽¹⁾	11.0	1.0	12.5	1.0	14.0	ns		
t _{PHZ} /t _{PLZ}	3-state output disable time OE to Q _n		–		6.2 ⁽¹⁾	10.1	1.0	11.5	1.0	13.0	ns		
t _W	clock pulse width HIGH or LOW	see Figs 6 and 9	15 pF		5.0	–	–	5.5	–	5.5	–	ns	
t _{su}	setup time D _n to CP	see Figs 8 and 9			3.0	–	–	3.5	–	3.5	–	ns	
t _h	hold time D _n to CP				1.5	–	–	1.5	–	1.5	–	ns	
f _{max}	maximum clock pulse frequency	see Figs 6 and 9		85	115	–	75	–	75	–	MHz		
				130	180	–	110	–	110	–	MHz		

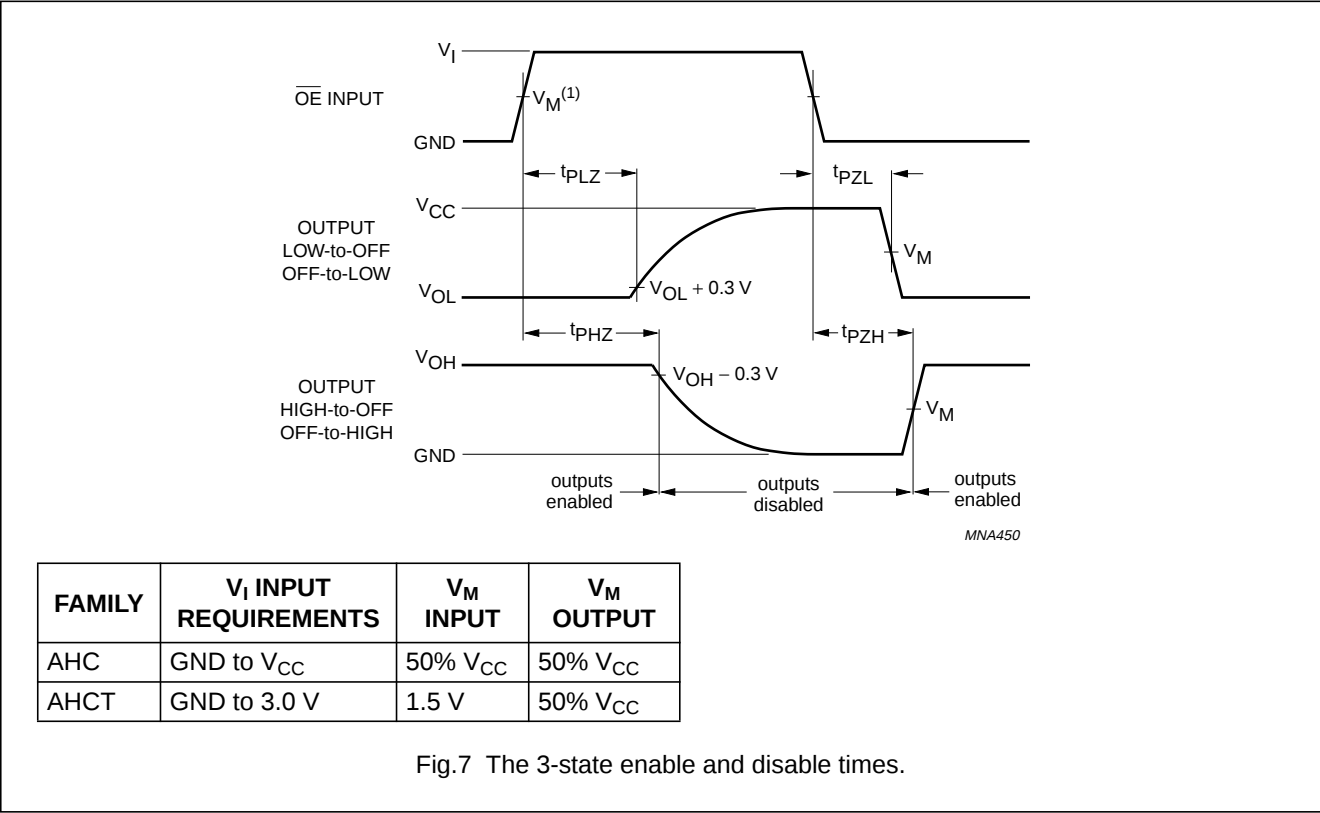
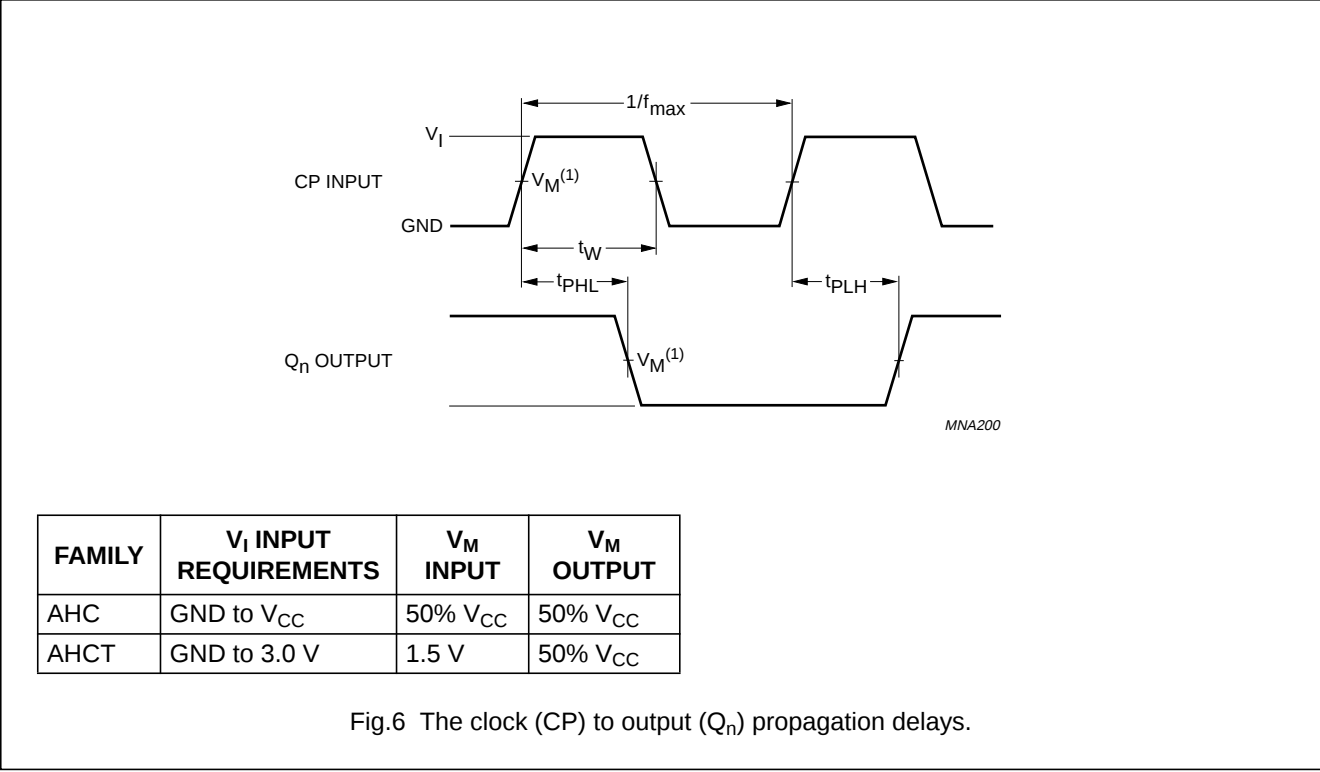
Note

1. Typical values at $V_{CC} = 5.0$ V.

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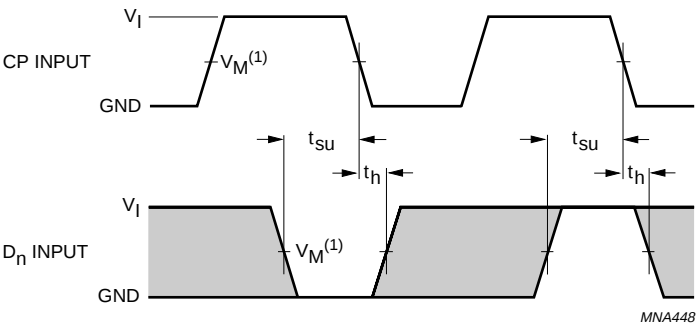
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AC WAVEFORMS



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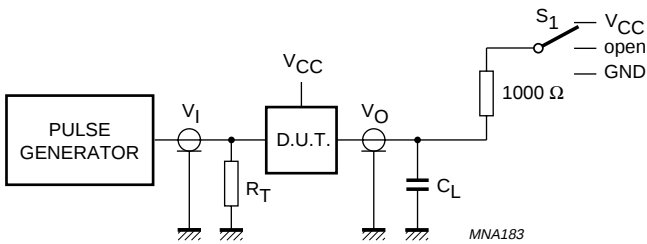
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FAMILY	V _I INPUT REQUIREMENTS	V _M INPUT	V _M OUTPUT
AHC	GND to V _{CC}	50% V _{CC}	50% V _{CC}
AHCT	GND to 3.0 V	1.5 V	50% V _{CC}

The shaded areas indicate when the input is permitted to change for predicable output performance.

Fig.8 The data set-up and hold times for D_n input.



TEST	S ₁
t _{PLH} /t _{PHL}	open
t _{PLZ} /t _{PZL}	V _{CC}
t _{PHZ} /t _{PZH}	GND

FAMILY	V _I INPUT REQUIREMENTS	V _M INPUT	V _M OUTPUT
AHC	GND to V _{CC}	50% V _{CC}	50% V _{CC}
AHCT	GND to 3.0 V	1.5 V	50% V _{CC}

Fig.9 Load circuitry for switching times.

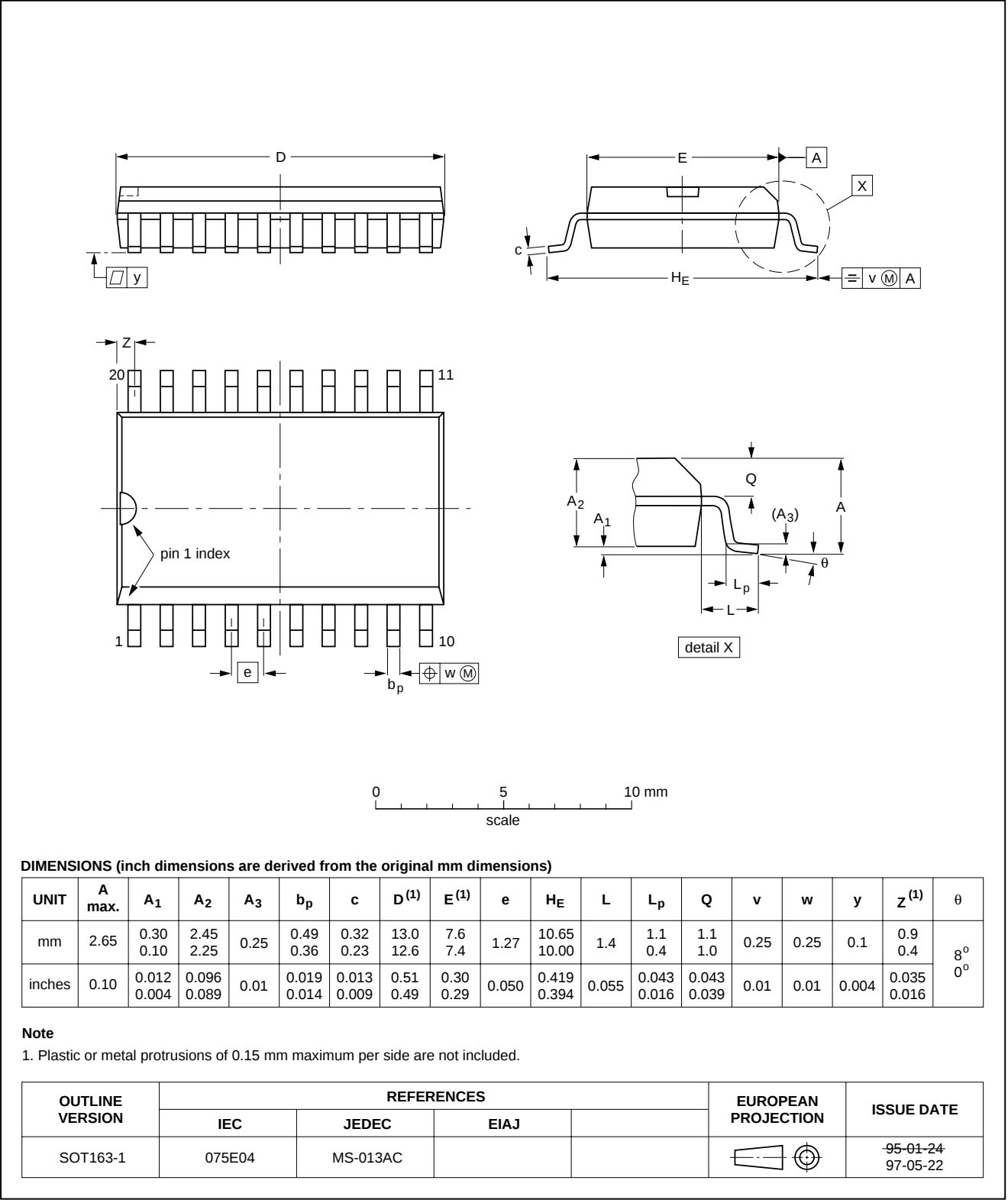
Octal D-type flip-flop; positive edge-trigger; 3-state

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PACKAGE OUTLINES

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1

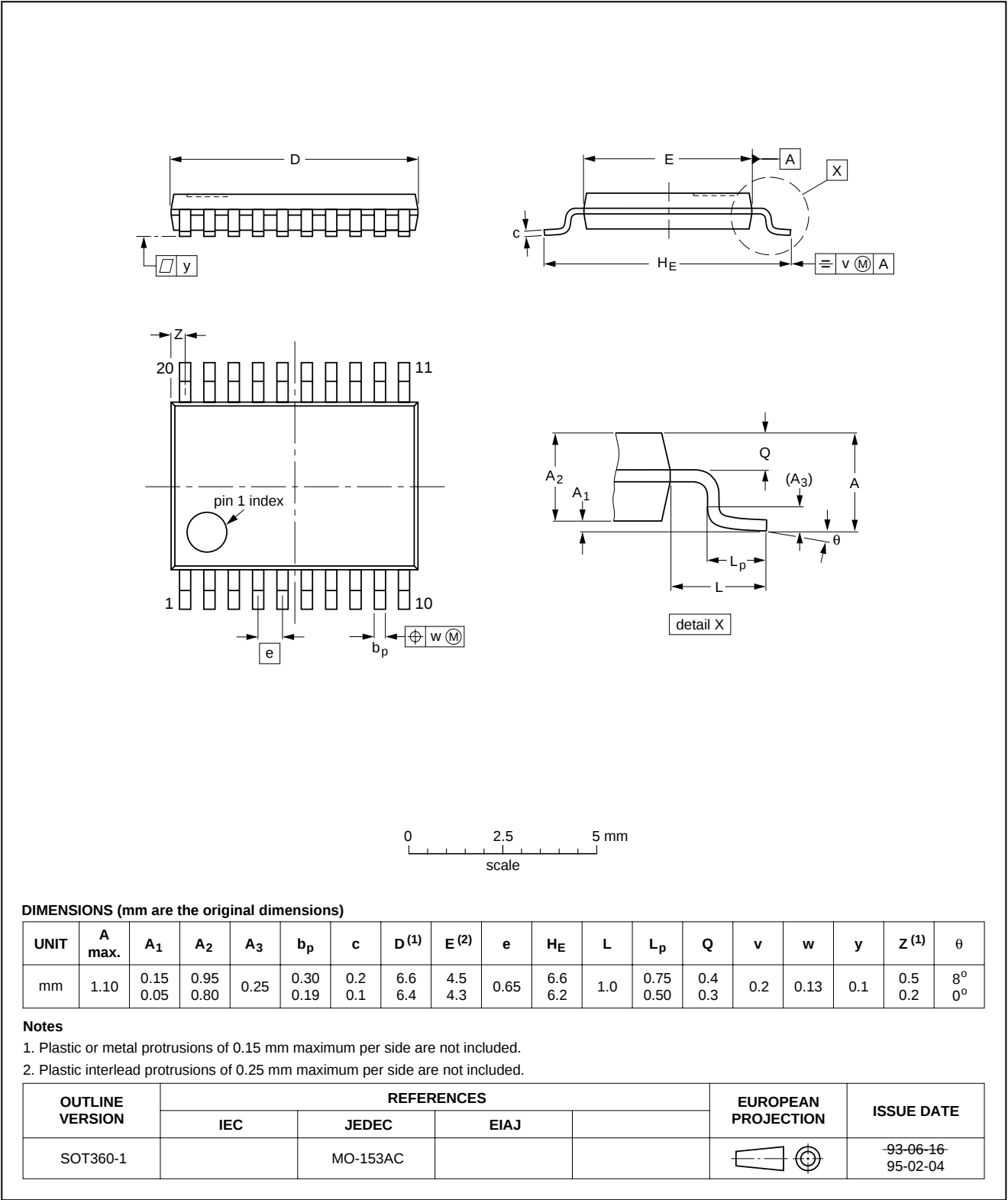


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TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



Octal D-type flip-flop; positive edge-trigger; 3-state

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This text gives a very brief insight to a complex technology. A more in-depth account of soldering ICs can be found in our *"Data Handbook IC26; Integrated Circuit Packages"* (document order number 9398 652 90011).

There is no soldering method that is ideal for all surface mount IC packages. Wave soldering is not always suitable for surface mount ICs, or for printed-circuit boards with high population densities. In these situations reflow soldering is often used.

Reflow soldering

Reflow soldering requires solder paste (a suspension of fine solder particles, flux and binding agent) to be applied to the printed-circuit board by screen printing, stencilling or pressure-syringe dispensing before package placement.

Several methods exist for reflowing; for example, infrared/convection heating in a conveyor type oven. Throughput times (preheating, soldering and cooling) vary between 100 and 200 seconds depending on heating method.

Typical reflow peak temperatures range from 215 to 250 °C. The top-surface temperature of the packages should preferably be kept below 230 °C.

Wave soldering

Conventional single wave soldering is not recommended for surface mount devices (SMDs) or printed-circuit boards with a high component density, as solder bridging and non-wetting can present major problems.

To overcome these problems the double-wave soldering method was specifically developed.

If wave soldering is used the following conditions must be observed for optimal results:

- Use a double-wave soldering method comprising a turbulent wave with high upward pressure followed by a smooth laminar wave.
- For packages with leads on two sides and a pitch (e):
 - larger than or equal to 1.27 mm, the footprint longitudinal axis is **preferred** to be parallel to the transport direction of the printed-circuit board;
 - smaller than 1.27 mm, the footprint longitudinal axis **must** be parallel to the transport direction of the printed-circuit board.

The footprint must incorporate solder thieves at the downstream end.

- For packages with leads on four sides, the footprint must be placed at a 45° angle to the transport direction of the printed-circuit board. The footprint must incorporate solder thieves downstream and at the side corners.

During placement and before soldering, the package must be fixed with a droplet of adhesive. The adhesive can be applied by screen printing, pin transfer or syringe dispensing. The package can be soldered after the adhesive is cured.

Typical dwell time is 4 seconds at 250 °C.

A mildly-activated flux will eliminate the need for removal of corrosive residues in most applications.

Manual soldering

Fix the component by first soldering two diagonally-opposite end leads. Use a low voltage (24 V or less) soldering iron applied to the flat part of the lead. Contact time must be limited to 10 seconds at up to 300 °C.

When using a dedicated tool, all other leads can be soldered in one operation within 2 to 5 seconds between 270 and 320 °C.

Octal D-type flip-flop; positive edge-trigger; 3-state

74AHC574;
74AHCT574

Suitability of surface mount IC packages for wave and reflow soldering methods

PACKAGE	SOLDERING METHOD	
	WAVE	REFLOW ⁽¹⁾
BGA, SQFP	not suitable	suitable
HLQFP, HSQFP, HSOP, SMS	not suitable ⁽²⁾	suitable
PLCC ⁽³⁾ , SO, SOJ	suitable	suitable
LQFP, QFP, TQFP	not recommended ⁽³⁾⁽⁴⁾	suitable
SSOP, TSSOP, VSO	not recommended ⁽⁵⁾	suitable

Notes

1. All surface mount (SMD) packages are moisture sensitive. Depending upon the moisture content, the maximum temperature (with respect to time) and body size of the package, there is a risk that internal or external package cracks may occur due to vaporization of the moisture in them (the so called popcorn effect). For details, refer to the Drypack information in the "Data Handbook IC26; Integrated Circuit Packages; Section: Packing Methods".
2. These packages are not suitable for wave soldering as a solder joint between the printed-circuit board and heatsink (at bottom version) can not be achieved, and as solder may stick to the heatsink (on top version).
3. If wave soldering is considered, then the package must be placed at a 45° angle to the solder wave direction. The package footprint must incorporate solder thieves downstream and at the side corners.
4. Wave soldering is only suitable for LQFP, TQFP and QFP packages with a pitch (e) equal to or larger than 0.8 mm; it is definitely not suitable for packages with a pitch (e) equal to or smaller than 0.65 mm.
5. Wave soldering is only suitable for SSOP and TSSOP packages with a pitch (e) equal to or larger than 0.65 mm; it is definitely not suitable for packages with a pitch (e) equal to or smaller than 0.5 mm.

DEFINITIONS

Data sheet status	
Objective specification	This data sheet contains target or goal specifications for product development.
Preliminary specification	This data sheet contains preliminary data; supplementary data may be published later.
Product specification	This data sheet contains final product specifications.
Limiting values	
Limiting values given are in accordance with the Absolute Maximum Rating System (IEC 134). Stress above one or more of the limiting values may cause permanent damage to the device. These are stress ratings only and operation of the device at these or at any other conditions above those given in the Characteristics sections of the specification is not implied. Exposure to limiting values for extended periods may affect device reliability.	
Application information	
Where application information is given, it is advisory and does not form part of the specification.	

LIFE SUPPORT APPLICATIONS

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Octal D-type flip-flop; positive edge-trigger; 3-state

74AHC574;
74AHCT574

NOTES

Octal D-type flip-flop; positive edge-trigger; 3-state

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NOTES

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