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# 74VHC175 Quad D-Type Flip-Flop

## Features

- High Speed:  $f_{MAX} = 210\text{MHz}$  (Typ.) at  $V_{CC} = 5\text{V}$
- Low power dissipation:  $I_{CC} = 4\mu\text{A}$  (Max.) at  $T_A = 25^\circ\text{C}$
- High noise immunity:  $V_{NIH} = V_{NIL} = 28\% V_{CC}$  (Min.)
- Power down protection is provided on all inputs
- Low noise:  $V_{OLP} = 0.8\text{V}$  (Max.)
- Pin and function compatible with 74HC175

## General Description

The VHC175 is an advanced high-speed CMOS device fabricated with silicon gate CMOS technology. It achieves the high-speed operation similar to equivalent Bipolar Schottky TTL while maintaining the CMOS low power dissipation.

The VHC175 is a high-speed quad D-type flip-flop. The device is useful for general flip-flop requirements where clock and clear inputs are common. The information on the D inputs is stored during the LOW-to-HIGH clock transition. Both true and complemented outputs of each flip-flop are provided. A Master Reset input resets all flip-flops, independent of the Clock or D inputs, when LOW.

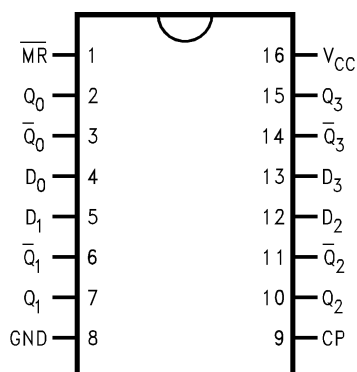
An input protection circuit insures that 0V to 7V can be applied to the input pins without regard to the supply voltage. This device can be used to interface 5V to 3V systems and two supply systems such as battery backup. This circuit prevents device destruction due to mismatched supply and input voltages.

## Ordering Information

Order Number	Package Number	Package Description
74VHC175M	M16A	16-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150" Narrow
74VHC175SJ	M16D	16-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74VHC175MTC	MTC16	16-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

Surface mount packages are also available on Tape and Reel. Specify by appending the suffix letter "X" to the ordering number.

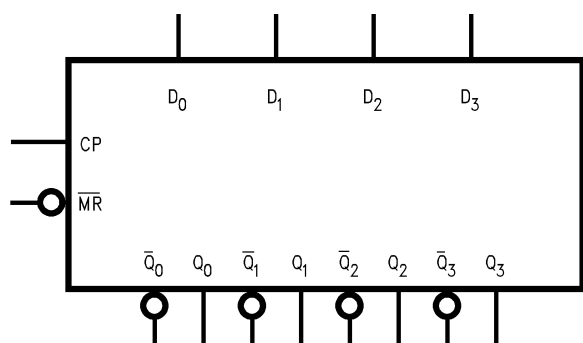
## Connection Diagram



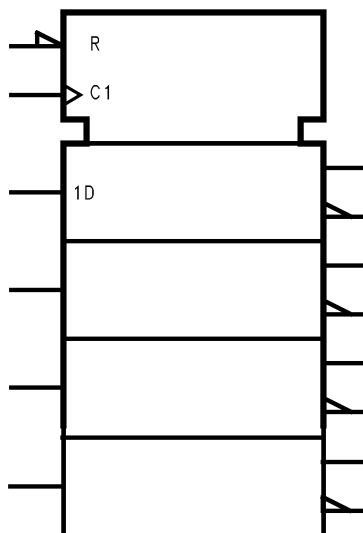
## Pin Description

Pin Names	Description
$D_0-D_3$	Data Inputs
CP	Clock Pulse Input
MR	Master Reset Input
$Q_0-Q_3$	True Outputs
$\overline{Q_0}-\overline{Q_3}$	Complement Outputs

## Logic Symbol



IEEE/IEC



## Functional Description

The VHC175 consists of four edge-triggered D flip-flops with individual D inputs and Q and  $\bar{Q}$  outputs. The Clock and Master Reset are common. The four flip-flops will store the state of their individual D inputs on the LOW-to-HIGH clock (CP) transition, causing individual Q and  $\bar{Q}$  outputs to follow. A LOW input on the Master Reset ( $\overline{MR}$ ) will force all Q outputs LOW and  $\bar{Q}$  outputs HIGH independent of Clock or Data inputs. The VHC175 is useful for general logic applications where a common Master Reset and Clock are acceptable.

## Truth Table

Inputs @ $t_n$ , $\overline{MR} = H$		Outputs @ $t_{n+1}$	
$D_n$		$Q_n$	$\bar{Q}_n$
L		L	H
H		H	L

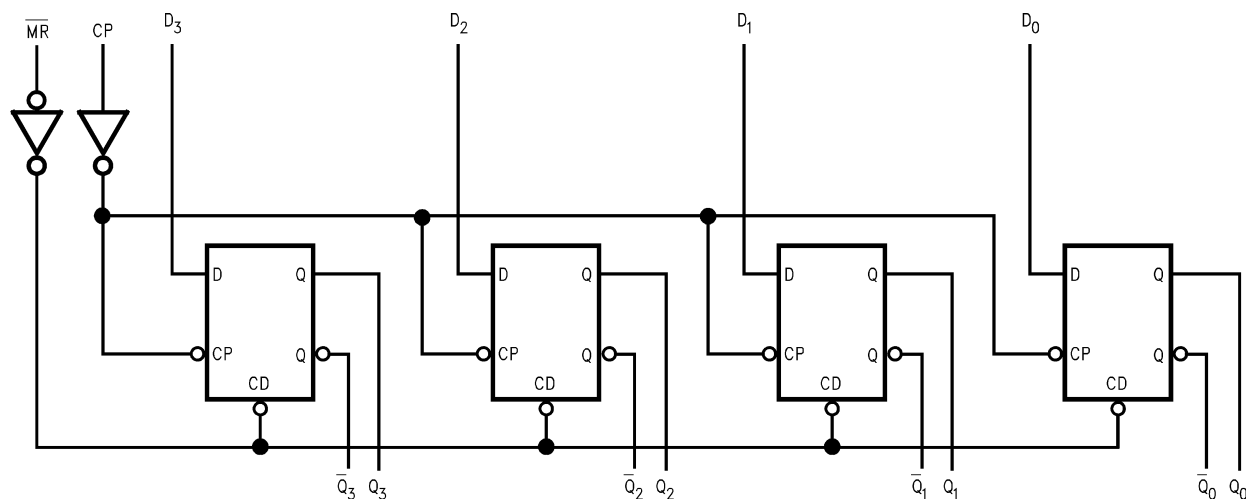
H = HIGH Voltage Level

L = LOW Voltage Level

$t_n$  = Bit Time before Clock Pulse

$t_{n+1}$  = Bit Time after Clock Pulse

## Logic Diagram



Please note that this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

## Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
$V_{CC}$	Supply Voltage	−0.5V to +7.0V
$V_{IN}$	DC Input Voltage	−0.5V to +7.0V
$V_{OUT}$	DC Output Voltage	−0.5V to $V_{CC} + 0.5V$
$I_{IK}$	Input Diode Current	−20mA
$I_{OK}$	Output Diode Current	±20mA
$I_{OUT}$	DC Output Current	±25mA
$I_{CC}$	DC $V_{CC}$ / GND Current	±50mA
$T_{STG}$	Storage Temperature	−65°C to +150°C
$T_L$	Lead Temperature (Soldering, 10 seconds)	260°C

## Recommended Operating Conditions<sup>(1)</sup>

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Rating
$V_{CC}$	Supply Voltage	2.0V to +5.5V
$V_{IN}$	Input Voltage	0V to +5.5V
$V_{OUT}$	Output Voltage	0V to $V_{CC}$
$T_{OPR}$	Operating Temperature	−40°C to +85°C
$t_r, t_f$	Input Rise and Fall Time, $V_{CC} = 3.3V \pm 0.3V$ $V_{CC} = 5.0V \pm 0.5V$	0ns/V ~ 100ns/V 0ns/V ~ 20ns/V

### Note:

1. Unused inputs must be held HIGH or LOW. They may not float.

## DC Electrical Characteristics

Symbol	Parameter	V <sub>CC</sub> (V)	Conditions		T <sub>A</sub> = 25°C			T <sub>A</sub> = -40°C to +85°C		Units	
					Min.	Typ.	Max.	Min.	Max.		
V <sub>IH</sub>	HIGH Level Input Voltage	2.0			1.50			1.50		V	
		3.0–5.5			0.7 x V <sub>CC</sub>			0.7 x V <sub>CC</sub>			
V <sub>IL</sub>	LOW Level Input Voltage	2.0					0.50		0.50	V	
		3.0–5.5					0.3 x V <sub>CC</sub>		0.3 x V <sub>CC</sub>		
V <sub>OH</sub>	HIGH Level Output Voltage	2.0	V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub>	I <sub>OH</sub> = -50μA	1.9	2.0		1.9		V	
		3.0			2.9	3.0		2.9			
		4.5			4.4	4.5		4.4			
		3.0		I <sub>OH</sub> = -4mA		2.58			2.48		
		4.5				I <sub>OH</sub> = -8mA		3.94			
V <sub>OL</sub>	LOW Level Output Voltage	2.0	V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub>	I <sub>OL</sub> = 50μA				0.0	0.1		0.1
		3.0				0.0	0.1		0.1		
		4.5				0.0	0.1		0.1		
		3.0		I <sub>OL</sub> = 4mA				0.36		0.44	
		4.5				I <sub>OL</sub> = 8mA				0.36	
I <sub>IN</sub>	Input Leakage Current	0–5.5	V <sub>IN</sub> = 5.5V or GND						±0.1	±1.0	μA
I <sub>CC</sub>	Quiescent Supply Current	5.5	V <sub>IN</sub> = V <sub>CC</sub> or GND				4.0		40.0	μA	

## Noise Characteristics

Symbol	Parameter	V <sub>CC</sub> (V)	T <sub>A</sub> = 25°C		Units	Conditions
			Typ.	Limits		
V <sub>OLP</sub> <sup>(2)</sup>	Quiet Output Maximum Dynamic V <sub>OL</sub>	5.0	0.4	0.8	V	C <sub>L</sub> = 50pF
V <sub>OLV</sub> <sup>(2)</sup>	Quiet Output Minimum Dynamic V <sub>OL</sub>	5.0	-0.4	-0.8	V	C <sub>L</sub> = 50pF
V <sub>IHD</sub> <sup>(2)</sup>	Minimum HIGH Level Dynamic Input Voltage	5.0		3.5	V	C <sub>L</sub> = 50pF
V <sub>ILD</sub> <sup>(2)</sup>	Maximum LOW Level Dynamic Input Voltage	5.0		1.5	V	C <sub>L</sub> = 50pF

**Note:**

2. Parameter guaranteed by design.

## AC Electrical Characteristics

Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	T <sub>A</sub> = 25°C			T <sub>A</sub> = -40°C to +85°C		Units
				Min.	Typ.	Max.	Min.	Max.	
f <sub>MAX</sub>	Maximum Clock Frequency	3.3 ± 0.3	C <sub>L</sub> = 15pF	90	140		75		MHz
			C <sub>L</sub> = 50pF	50	75		45		
		5.0 ± 0.5	C <sub>L</sub> = 15pF	150	210		125		MHz
			C <sub>L</sub> = 50pF	85	115		75		
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay Time, (CP to Q <sub>n</sub> or $\overline{Q}_n$ )	3.3 ± 0.3	C <sub>L</sub> = 15pF		7.5	11.5	1.0	13.5	ns
			C <sub>L</sub> = 50pF		10.0	15.0	1.0	17.0	
		5.0 ± 0.5	C <sub>L</sub> = 15pF		4.8	7.3	1.0	8.5	ns
			C <sub>L</sub> = 50pF		6.3	9.3	1.0	10.5	
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay Time, (MR to Q <sub>n</sub> or $\overline{Q}_n$ )	3.3 ± 0.3	C <sub>L</sub> = 15pF		6.3	10.1	1.0	12.0	ns
			C <sub>L</sub> = 50pF		8.8	13.6	1.0	15.5	
		5.0 ± 0.5	C <sub>L</sub> = 15pF		4.3	6.4	1.0	7.5	ns
			C <sub>L</sub> = 50pF		5.8	8.4	1.0	9.5	
t <sub>OSLH</sub> , t <sub>OSHL</sub>	Output to Output Skew	3.3 ± 0.3	C <sub>L</sub> = 50pF			1.5		1.5	
		5.0 ± 0.5	C <sub>L</sub> = 50pF <sup>(3)</sup>			1.0		1.0	
C <sub>IN</sub>	Input Capacitance		V <sub>CC</sub> = Open		4	10		10	pF
C <sub>PD</sub>	Power Dissipation Capacitance		<sup>(4)</sup>		44				pF

## Notes:

3. Parameter guaranteed by design.  $t_{OSLH} = |t_{PLHmax} - t_{PLHmin}|$ ;  $t_{OSHL} = |t_{PHLmax} - t_{PHLmin}|$ .

4. C<sub>PD</sub> is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained from the equation:

I<sub>CC</sub> (opr.) = C<sub>PD</sub> • V<sub>CC</sub> • f<sub>IN</sub> + I<sub>CC</sub>/4 (per F/F), and the total C<sub>PD</sub> when n pcs of the Flip-Flop operate can be calculated by the following equation: C<sub>PD</sub> (total) = 30 + 14 • n

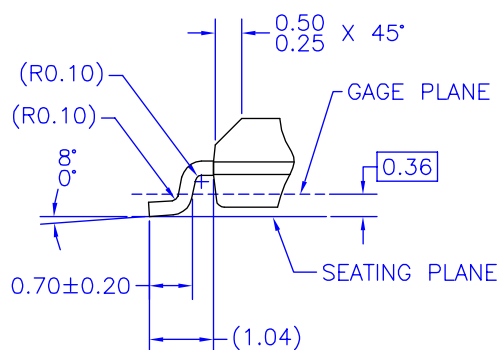
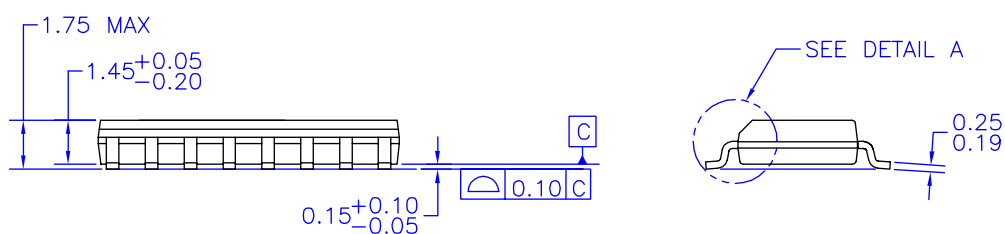
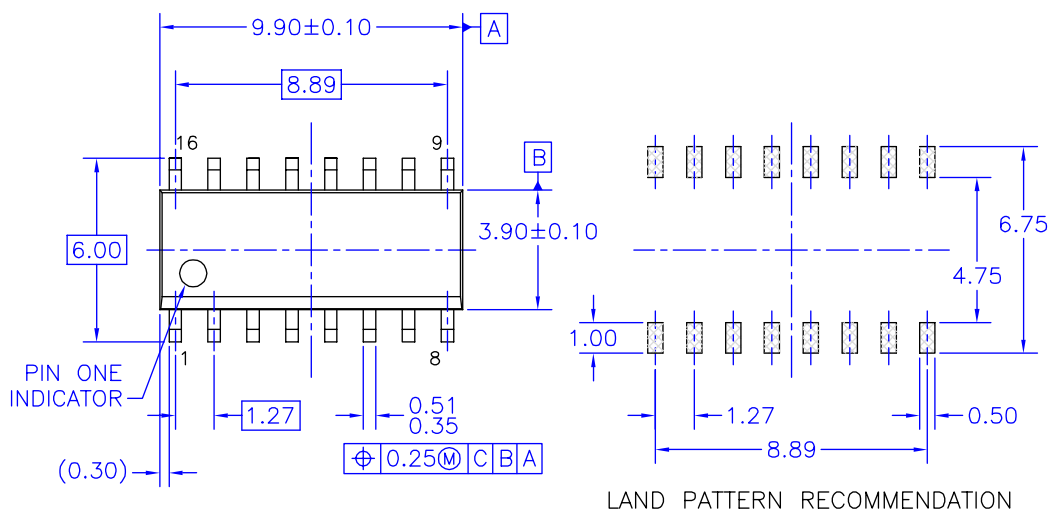
## AC Operating Requirements

Symbol	Parameter	V <sub>CC</sub> (V) <sup>(5)</sup>	T <sub>A</sub> = 25°C		T <sub>A</sub> = −40°C to +85°C	Units
			Typ.	Guaranteed Minimum		
t <sub>W</sub> (L), t <sub>W</sub> (H)	Minimum Pulse Width (CP)	3.3		5.0	5.0	ns
		5.0		5.0	5.0	
t <sub>W</sub> (L)	Minimum Pulse Width ( $\overline{MR}$ )	3.3		5.0	5.0	ns
		5.0		5.0	5.0	
t <sub>S</sub>	Minimum Setup Time (Dn to CP)	3.3		5.0	5.0	ns
		5.0		4.0	4.0	
t <sub>H</sub>	Minimum Hold Time (Dn to CP)	3.3		1.0	1.0	ns
		5.0		1.0	1.0	
t <sub>REC</sub>	Minimum Removal Time ( $\overline{MR}$ )	3.3		5.0	5.0	ns
		5.0		5.0	5.0	

## Note:

5. V<sub>CC</sub> is 3.3 ± 0.3V or 5.0 ± 0.5V

Dimensions are in millimeters unless otherwise noted.



DETAIL A  
SCALE: 2:1

NOTES: UNLESS OTHERWISE SPECIFIED

- A) THIS PACKAGE CONFORMS TO JEDEC MS-012, VARIATION AC, ISSUE C, DATED MAY 1990.
- B) ALL DIMENSIONS ARE IN MILLIMETERS.
- C) DIMENSIONS DO NOT INCLUDE MOLD FLASH OR BURRS.
- D) STANDARD LEAD FINISH:  
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LEAD/TIN (SOLDER) ON COPPER.

B) ALL DIMENSIONS ARE IN MILLIMETERS.

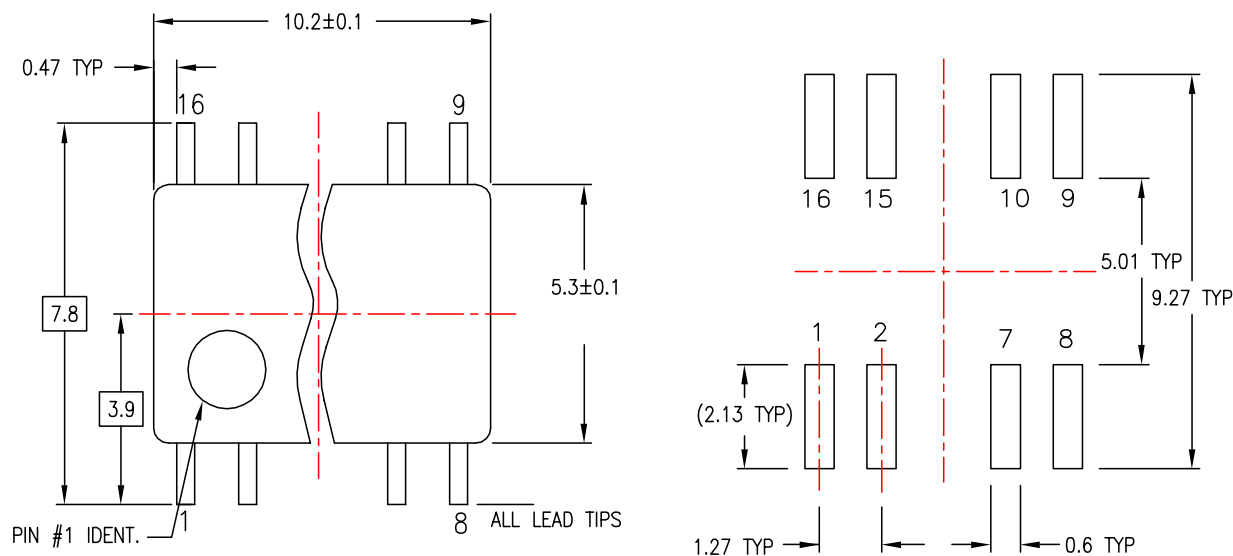
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D) STANDARD LEAD FINISH:  
200 MICROINCHES / 5.08 MICRONS MIN.  
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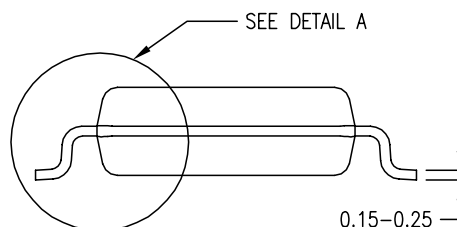
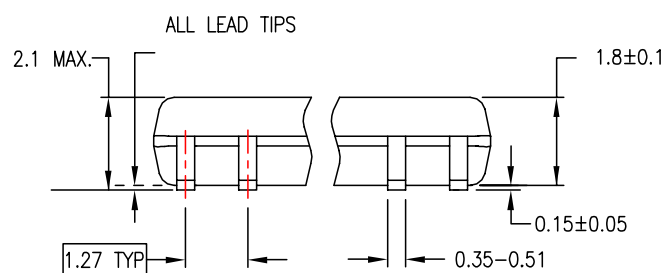
M16AREVK

**Figure 1. 16-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-012, 0.150" Narrow Package Number M16A**

Dimensions are in millimeters unless otherwise noted.



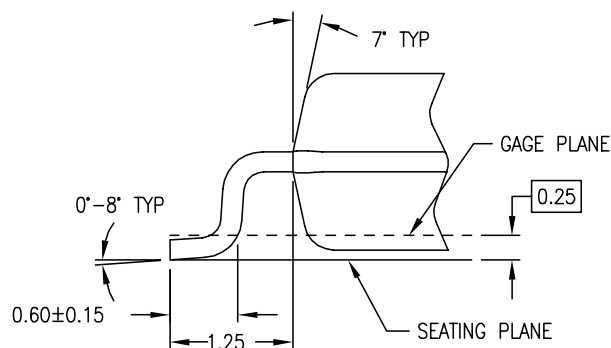
## LAND PATTERN RECOMMENDATION



DIMENSIONS ARE IN MILLIMETERS

NOTES:

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- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.



DETAIL A

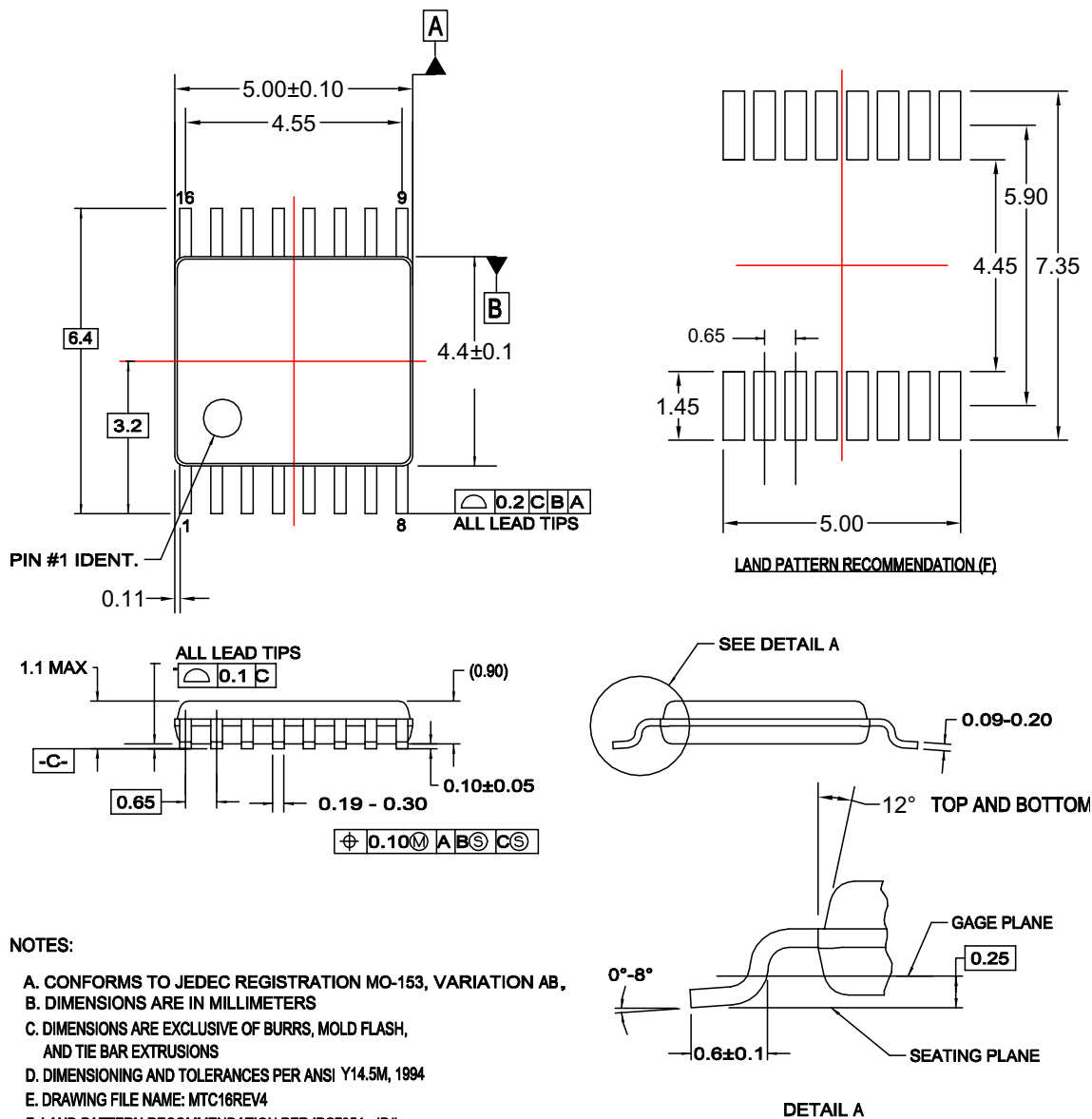
M16DREVC

**Figure 2. 16-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide  
Package Number M16D**



**Physical Dimensions** (Continued)

Dimensions are in millimeters unless otherwise noted.




MTC16rev4

**Figure 3. 16-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide Package Number MTC16**



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