

Is Now Part of



ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at www.onsemi.com

Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild guestions@onsemi.com.

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any EDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officer



NC7WP125

TinyLogic® ULP Buffer with 3-STATE Output

General Description

The NC7WP125 is a dual buffer with 3-STATE output from Fairchild's Ultra Low Power (ULP) series of TinyLogic®. Ideal for applications where battery life is critical, this product is designed for ultra low power consumption within the V_{CC} operating range of 0.9V to 3.6V.

The internal circuit is composed of a minimum of inverter stages, including the output buffer, to enable ultra low static and dynamic power.

The NC7WP125, for lower drive requirements, is uniquely designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve best in class speed operation while maintaining extremely low CMOS power dissipation.

Features

- 0.9V to 3.6V V_{CC} supply operation
- 3.6V overvoltage tolerant I/O's at V_{CC} from 0.9V to 3.6V

November 2003

Revised January 2005

3 ns typ for 3.0V to 3.6V V_{CC}

4 ns typ for 2.3V to 2.7V V_{CC}

5 ns typ for 1.65V to 1.95V V_{CC}

6 ns typ for 1.40V to 1.60V V_{CC}

10 ns typ for 1.10V to 1.30V V_{CC}

26 ns typ for 0.90V $V_{\rm CC}$

- Power-Off high impedance inputs and outputs
- Static Drive (I_{OH}/I_{OL})

±2.6 mA @ 3.00V V_{CC}

±2.1 mA @ 2.30V V_{CC}

±1.5 mA @ 1.65V V_{CC}

±1.0 mA @ 1.40V V_{CC}

 ± 0.5 mA @ 1.10V V_{CC}

±20 μA @ 0.9V V_{CC}

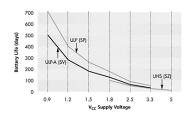
- Uses patented Quiet Series[™] noise/EMI reduction
- Ultra small MicroPak™ Pb-Free package
- Ultra low dynamic power

Ordering Code:

Order Number	Package Number	Product Code Top Mark	Package Description	Supplied As
NC7WP125K8X	MAB08A		8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide	3k Units on Tape and Reel
NC7WP125L8X	MAC08A	Y9	Pb-Free 8-Lead MicroPak, 1.6 mm Wide	5k Units on Tape and Reel

Pb-Free package per JEDEC J-STD-020B.

Battery Life vs. V_{CC} Supply Voltage



TinyLogic ULP and ULP-A with up to 50% less power consumption can extend your battery life significantly. Battery Life = (V_{battery} *I_{battery}*.9)/(P_{device})/24hrs/day

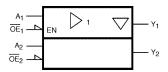
Where, $P_{device} = (I_{CC} * V_{CC}) + (C_{PD} + C_L) * V_{CC}^2 * f$

Assumes ideal 3.6V Lithium Ion battery with current rating of 900mAH and derated 90% and device frequency at 10MHz, with $C_L = 15 \ pF$ load

TinyLogic® is a registered trademark, and Quiet Series™ and MicroPak™ are trademarks of Fairchild Semiconductor Corporation.

Logic Symbol

IEEE/IEC



Pin Descriptions

Pin Names	Description
\overline{OE}_n	Enable Inputs for 3-STATE Outputs
A _n	Input
Y _n	3-STATE Outputs

Function Table

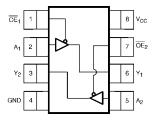
Inp	Output	
ŌĒ	A _n	Y _n
L	L	L
L	Н	Н
Н	L	Z
Н	Н	Z

H = HIGH Logic Level

- L = LOW Logic Level Z = HIGH Impedance State

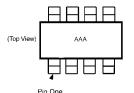
Connection Diagrams

Pin Assignments for US8



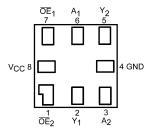
(Top View)

Pin One Orientation Diagram



AAA represents Product Code Top Mark - see ordering code Note: Orientation of Top Mark determines Pin One location. Read the top product code mark left to right, Pin One is the lower left pin (see diagram).

Pad Assignments for MicroPak



(Top Thru View)

Absolute Maximum Ratings(Note 1)

Supply Voltage (V_{CC}) -0.5V to +4.6V DC Input Voltage (V_{IN}) -0.5V to +4.6V

DC Output Voltage (V_{OUT})

HIGH or LOW State (Note 2) -0.5V to V_{CC} +0.5V $V_{CC} = 0V$ -0.5V to 4.6VDC Input Diode Current (I_{IK}) $V_{IN} < 0V$ ±50 mA

DC Output Diode Current (I_{OK}) $V_{OUT} < 0V$

V_{OUT} > V_{CC} +50 mA DC Output Source/Sink Current (I_{OH}/I_{OL}) \pm 50 mA DC V_{CC} or Ground Current per

Supply Pin (I_{CC} or Ground)

 \pm 50 mA Storage Temperature Range (T_{STG}) -65°C to +150°C

Recommended Operating Conditions (Note 3)

0.9V to 3.6V Supply Voltage 0V to 3.6V Input Voltage (V_{IN})

Output Voltage (V_{OUT})

-50 mA

HIGH or LOW State 0V to V_{CC} 0V to 3.6V $V_{CC} = 0V$

Output Current in I_{OH}/I_{OL}

 $V_{CC} = 3.0V$ to 3.6V±2.6 mA $V_{CC} = 2.3V \text{ to } 2.7V$ \pm 2.1 mA $V_{CC} = 1.65V$ to 1.95V \pm 1.5 mA

 $V_{CC} = 1.40V \text{ to } 1.60V$ \pm 1.0 mA $V_{CC} = 1.10V \text{ to } 1.30V$ ±0.5 mA

 $V_{CC} = 0.9V$ ±20 μA Free Air Operating Temperature (T_A) -40°C to +85°C

Minimum Input Edge Rate (Δt/ΔV)

 $V_{IN} = 0.8V$ to 2.0V, $V_{CC} = 3.0V$ 10 ns/V

Note 1: Absolute Maximum Ratings: are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Note 2: IO Absolute Maximum Rating must be observed.

Note 3: Unused inputs must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

0	Barrantan	V _{cc}	T _A = -	+25°C	T _A = -40°	C to +85°C	1111-	0
Symbol	Parameter	(V)	Min	Max	Min	Max	Units	Conditions
V_{IH}	HIGH Level	0.90	0.65 x V _{CC}		0.65 x V _{CC}			
	Input Voltage	$1.10 \le V_{CC} \le 1.30$	0.65 x V _{CC}		0.65 x V _{CC}			
		$1.40 \le V_{CC} \le 1.60$	0.65 x V _{CC}		0.65 x V _{CC}		V	
		$1.65 \le V_{CC} \le 1.95$	0.65 x V _{CC}		0.65 x V _{CC}		v	
		$2.30 \leq V_{CC} \leq 2.70$	1.6		1.6			
		$3.00 \leq V_{CC} \leq 3.60$	2.1		2.1			
V _{IL}	LOW Level	0.90		0.35 x V _{CC}		0.35 x V _{CC}		
	Input Voltage	$1.10 \le V_{CC} \le 1.30$		$0.35 \times V_{CC}$		$0.35 \times V_{\rm CC}$		
		$1.40 \le V_{CC} \le 1.60$		$0.35 \times V_{\rm CC}$		$0.35 \times V_{\rm CC}$	V	
		$1.65 \le V_{CC} \le 1.95$		$0.35 \times V_{CC}$		$0.35 \times V_{\rm CC}$		
		$2.30 \leq V_{CC} \leq 2.70$		0.7		0.7		
		$3.00 \leq V_{CC} \leq 3.60$		0.9		0.9		
V _{OH}	HIGH Level	0.90	V _{CC} - 0.1		V _{CC} - 0.1			
	Output Voltage	$1.10 \le V_{CC} \le 1.30$	V _{CC} - 0.1		V _{CC} - 0.1			
		$1.40 \le V_{CC} \le 1.60$	V _{CC} - 0.1		V _{CC} - 0.1			I _{OH} = -20 μA
		$1.65 \le V_{CC} \le 1.95$	V _{CC} - 0.1		V _{CC} - 0.1			10Η = -20 μΑ
		$2.30 \leq V_{CC} \leq 2.70$	V _{CC} - 0.1		V _{CC} - 0.1			
		$3.00 \le V_{CC} \le 3.60$	V _{CC} - 0.1		V _{CC} - 0.1		V	
		$1.10 \le V_{CC} \le 1.30$	0.75 x V _{CC}		0.70 x V _{CC}			$I_{OH} = -0.5 \text{ mA}$
		$1.40 \le V_{CC} \le 1.60$	1.07		0.99			$I_{OH} = -1.0 \text{ mA}$
		1.65 ≤ V _{CC} ≤ 1.95	1.24		1.22			$I_{OH} = -1.5 \text{ mA}$
		$2.30 \le V_{CC} \le 2.70$	1.95		1.87			$I_{OH} = -2.1 \text{ mA}$
		$3.00 \leq V_{CC} \leq 3.60$	2.61		2.55			$I_{OH} = -2.6 \text{ mA}$

DC Electrical Characteristics (Continued)

Symbol	Parameter	V _{CC}	T _A =	: +25°C	$T_A = -40^\circ$	°C to +85°C	Units	Conditions
Cynnbon	i diametei	(V)	Min	Max	Min	Max	Oilles	Conditions
V _{OL}	LOW Level	0.90		0.1		0.1		
	Output Voltage	$1.10 \leq V_{CC} \leq 1.30$		0.1		0.1		
		$1.40 \leq V_{CC} \leq 1.60$		0.1		0.1		I - 20 A
		$1.65 \leq V_{CC} \leq 1.95$		0.1		0.1		$I_{OL} = 20 \mu A$
		$2.30 \leq V_{CC} \leq 2.70$		0.1		0.1		
		$3.00 \leq V_{CC} \leq 3.60$		0.1		0.1	V	
		$1.10 \le V_{CC} \le 1.30$		0.30 x V _{CC}		0.30 x V _{CC}		I _{OL} = 0.5 mA
		$1.40 \le V_{CC} \le 1.60$		0.31		0.37		I _{OL} = 1.0 mA
		$1.65 \leq V_{CC} \leq 1.95$		0.31		0.35		I _{OL} = 1.5 mA
		$2.30 \leq V_{CC} \leq 2.70$		0.31		0.33		I _{OL} = 2.1 mA
		$3.00 \leq V_{CC} \leq 3.60$		0.31		0.33		I _{OL} = 2.6 mA
I _{IN}	Input Leakage Current	0.90 to 3.60		±0.1		±0.9	μΑ	$0 \le V_I \le 3.6V$
I _{OZ}	3-STATE Output	0.90 to 3.60		±1.0		±5.0	μА	$V_I = V_{IH}$ or V_{IL}
	Leakage	0.90 to 3.60		±1.0		±3.0	μА	$0 \le V_O \le 3.6V$
I _{OFF}	Power Off Leakage Current	0		1.0		5.0	μΑ	$0 \le (V_I, V_O) \le 3.6V$
I _{CC}	Quiescent Supply Current	0.90 to 3.60		0.9		5.0	μΑ	V _I = V _{CC} or GND

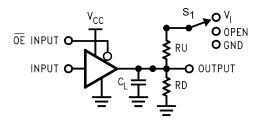
AC Electrical Characteristics

Symbol	Parameter	V _{CC}		$T_A = +25^{\circ}C$;	$T_A = -40^{\circ}$	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Conditions	Figure
Symbol	Farameter	(V)	Min	Тур	Max	Min	Max	Units	Conditions	Number
t _{PHL}	Propagation Delay	0.90		26.0						
t _{PLH}		$1.10 \leq V_{CC} \leq 1.30$	4.0	10.0	19.1	3.5	39.6			
		$1.40 \le V_{CC} \le 1.60$	2.0	6.0	11.2	1.5	14.5		C _L = 10 pF	
		$1.65 \le V_{CC} \le 1.95$	1.5	5.0	8.6	1.0	11.6	ns	$R_L = 1 M\Omega$	
		$2.30 \le V_{CC} \le 2.70$	1.0	4.0	6.3	0.8	8.2			
		$3.00 \le V_{CC} \le 3.60$	1.0	3.0	5.3	0.5	7.2			
t _{PZH}	Output	0.90		29.0					C _L = 10 pF	
t_{PZL}	Enable Time	$1.10 \le V_{CC} \le 1.30$	4.0	8.0	17.5	3.5	40.4		$R_U=5000\Omega$	
		$1.40 \le V_{CC} \le 1.60$	2.0	6.0	11.9	1.5	14.8		$R_D = 5000\Omega$	
		$1.65 \le V_{CC} \le 1.95$	1.5	5.0	9.7	1.0	12.3	ns	$S_1 = GND \text{ for } t_{PZH}$	
		$2.30 \leq V_{CC} \leq 2.70$	1.0	4.0	7.7	0.8	10.5		$S_1 = V_I \text{ for } t_{PZL}$	
		$3.00 \leq V_{CC} \leq 3.60$	1.0	3.0	6.9	0.5	8.6			
t _{PHZ}	Output	0.90		28.0					C _L = 10 pF	
t_{PLZ}	Disable Time	$1.10 \le V_{CC} \le 1.30$	4.0	8.0	20.5	3.5	42.0		$R_U=5000\Omega$	
		$1.40 \le V_{CC} \le 1.60$	2.0	6.0	17.6	1.5	18.9	ns	$R_D=5000\Omega$	
		$1.65 \leq V_{CC} \leq 1.95$	1.5	5.0	17.4	1.0	18.7	115	$S_1 = GND \text{ for } t_{PHZ}$	
		$2.30 \leq V_{CC} \leq 2.70$	1.0	4.0	16.4	0.8	17.7		$S_1 = V_I \text{ for } t_{PLZ}$	
		$3.00 \leq V_{CC} \leq 3.60$	1.0	3.0	16.2	0.5	17.5			
t _{PHL}	Propagation Delay	0.90		28.0						
t _{PLH}		$1.10 \le V_{CC} \le 1.30$	5.0	10.0	20.5	4.5	42.5			
		$1.40 \le V_{CC} \le 1.60$	3.0	7.0	11.8	2.5	15.4	ns	C _L = 15 pF	Figures
		$1.65 \le V_{CC} \le 1.95$	2.0	5.0	9.1	2.0	12.2	ns	$R_L = 1 \ M\Omega$	1, 2
		$2.30 \leq V_{CC} \leq 2.70$	1.5	4.0	6.6	1.0	8.6			
		$3.00 \le V_{CC} \le 3.60$	1.0	3.0	5.6	0.5	7.5			
t _{PZH}	Output	0.90		31.0					C _L = 15 pF	
t_{PZL}	Enable Time	$1.10 \le V_{CC} \le 1.30$	5.0	11.0	18.2	4.5	43.3		$R_U=5000\Omega$	
		$1.40 \le V_{CC} \le 1.60$	3.0	7.0	12.5	2.5	15.5	no	$R_D=5000\Omega$	Figures
		$1.65 \le V_{CC} \le 1.95$	2.0	5.0	10.2	2.0	12.9	ns	$S_1 = GND \text{ for } t_{PZH}$	1, 2
		$2.30 \leq V_{CC} \leq 2.70$	1.5	4.0	8.0	1.0	9.9		$S_1 = V_I \text{ for } t_{PLZ}$	
		$3.00 \le V_{CC} \le 3.60$	1.0	3.0	7.2	0.5	8.9			

AC Electrical Characteristics (Continued)

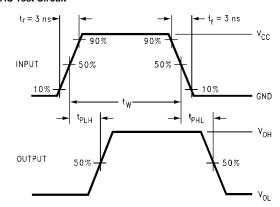
Symbol	Parameter	V _{CC}		T _A = +25°C	;	$T_A = -40^{\circ}$	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Conditions	Figure	
Syllibol	Farameter	(V)	Min	Тур	Max	Min	Max	Units	Conditions	Number	
t _{PHZ}	Output	0.90		30.0					C _L = 15 pF		
t _{PLZ}	Disable Time	$1.10 \le V_{CC} \le 1.30$	5.0	11.0	21.6	4.5	44.9		$R_U=5000\Omega$		
		$1.40 \le V_{CC} \le 1.60$	3.0	7.0	17.1	2.5	20.0	ns	$R_D=5000\Omega$	Figures	
		$1.65 \le V_{CC} \le 1.95$	2.0	5.0	16.9	2.0	19.9	115	$S_1 = GND \text{ for } t_{PHZ}$	1, 2	
		$2.30 \leq V_{CC} \leq 2.70$	1.5	4.0	16.8	1.0	18.1		$S_1 = V_I \text{ for } t_{PLZ}$		
		$3.00 \le V_{CC} \le 3.60$	1.0	3.0	16.6	0.5	17.8				
t _{PHL}	Propagation Delay	0.90		34.0							
t _{PLH}		$1.10 \le V_{CC} \le 1.30$	5.5	12.0	23.4	5.0	51.1				
		$1.40 \le V_{CC} \le 1.60$	4.0	8.0	13.8	3.0	17.7	ns	$C_L = 30 \text{ pF}\Omega$	Figures	
		$1.65 \le V_{CC} \le 1.95$	2.0	6.0	10.6	2.0	14.0	ns	$R_L=1M\Omega$	1, 2	
		$2.30 \le V_{CC} \le 2.70$	1.0	5.0	7.6	1.0	9.9				
		$3.00 \le V_{CC} \le 3.60$	0.8	4.0	6.4	0.5	8.9				
t _{PZH}	Output	0.90		37.0					C _L = 30 pF		
t _{PZL}	Enable Time	$1.10 \le V_{CC} \le 1.30$	6.0	13.0	24.4	5.0	51.9		$R_U=5000\Omega$	Figures 1, 2	
		$1.40 \le V_{CC} \le 1.60$	4.0	8.0	14.5	3.0	17.9	ns	$R_D=5000\Omega$		
		$1.65 \le V_{CC} \le 1.95$	2.0	6.0	11.7	2.0	14.7	ns	$S_1 = GND \text{ for } t_{PZH}$		
		$2.30 \leq V_{CC} \leq 2.70$	1.0	5.0	9.1	1.0	11.1		$S_1 = V_I$ for t_{PZL}		
		$3.00 \le V_{CC} \le 3.60$	0.8	4.0	8.1	0.5	10.1				
t _{PHZ}	Output	0.90		36.0					C _L = 30 pF		
t_{PLZ}	Disable Time	$1.10 \le V_{CC} \le 1.30$	6.0	13.0	24.8	5.0	53.5		$R_U=5000\Omega$		
		$1.40 \le V_{CC} \le 1.60$	4.0	8.0	18.1	3.0	22.6	ns	$R_D=5000\Omega$	Figures	
		$1.65 \le V_{CC} \le 1.95$	2.0	6.0	17.9	2.0	22.0	115	$S_1 = GND \text{ for } t_{PHZ}$	1, 2	
		$2.30 \leq V_{CC} \leq 2.70$	1.0	5.0	17.7	1.0	21.6		$S_1 = V_I \text{ for } t_{PLZ}$		
		$3.00 \le V_{CC} \le 3.60$	0.8	4.0	17.5	0.5	21.2				
C _{IN}	Input Capacitance	0		2.0				pF			
C _{OUT}	Output Capacitance	0		4.0				pF			
C _{PD}	Power Dissipation Capacitance	0.9 to 3.60		8.0				pF	$V_I = 0V \text{ or } V_{CC},$ f = 10 MHz		

AC Loading and Waveforms



Test	Switch
t _{PLH} , t _{PHL}	Open
t_{PZL} , t_{PLZ}	6V at $V_{CC} = 3.3V \pm 0.3V$
	V_{CC} x 2 at V_{CC} = < 3.0V
t_{PZH} , t_{PHZ}	GND

FIGURE 1. AC Test Circuit



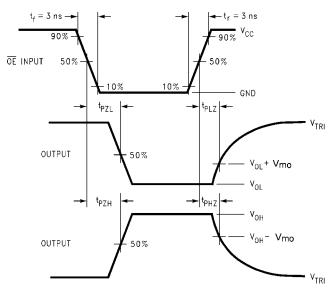


FIGURE 2. AC Waveforms

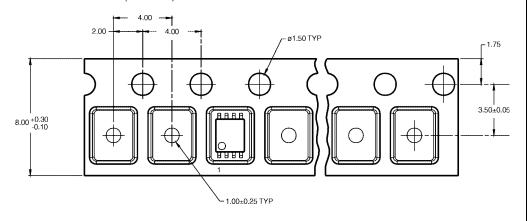
Symbol	V _{CC}									
Cymbol	$3.3V \pm 0.3V$	$\textbf{2.5V} \pm \textbf{0.2V}$	1.8V ± 0.15V	$1.5V \pm 0.10V$	1.2V ± 0.10V	0.9V				
V _{mi}	1.5V	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2				
V _{mo}	0.3V	0.15	0.15	0.1	0.1	0.1				

Tape and Reel Specification

TAPE FORMAT for US8

Package	Tape	Number	Cavity	Cover Tape	
Designator	Section	Cavities	Status	Status	
	Leader (Start End)	125 (typ)	Empty	Sealed	
K8X	Carrier	3000	Filled	Sealed	
	Trailer (Hub End)	75 (typ)	Empty	Sealed	

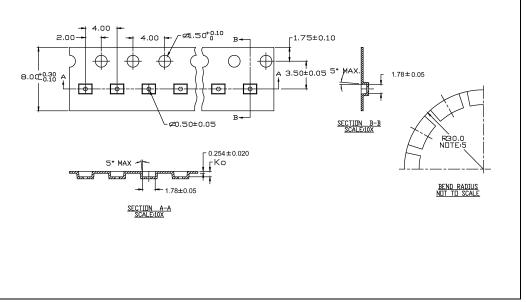
TAPE DIMENSIONS inches (millimeters)



TAPE FORMAT for MicroPak

Package	Tape	Number	Cavity	Cover Tape
Designator	Section	Cavities	Status	Status
	Leader (Start End)	125 (typ)	Empty	Sealed
L8X	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (typ)	Empty	Sealed

TAPE DIMENSIONS inches (millimeters)



8 mm

(177.8)

(1.50)

(13.00)

(20.20)

(55.00)

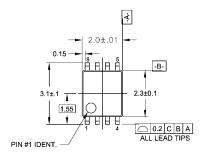
(8.40 + 1.50 / -0.00)

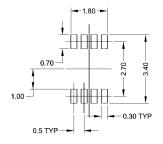
(14.40)

(W1 + 2.00/-1.00)

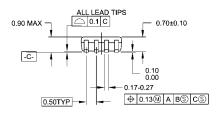
Tape and Reel Specification (Continued) REEL DIMENSIONS inches (millimeters) TAPE SLOT - DETAIL X DETAIL X SCALE: 3X Tape Size В С D N W1 W2 W3 0.512 0.567 W1 + 0.078/-0.039 7.0 0.059 0.795 2.165 0.331 + 0.059/-0.000

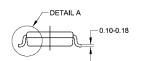
Physical Dimensions inches (millimeters) unless otherwise noted

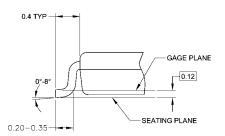




LAND PATTERN RECOMMENDATION







NOTES:

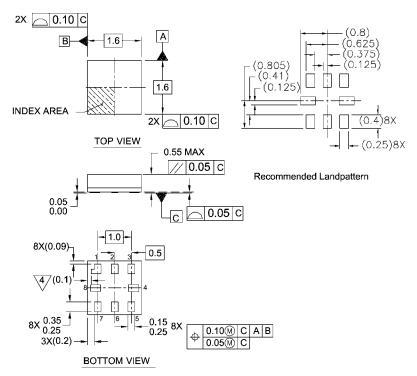
- CONFORMS TO JEDEC REGISTRATION MO-187
 D. DIMENSIONS ARE IN MILLIMETERS.
 C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

DETAIL A

MAB08AREVC

8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide Package Number MAB08A

Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



Notes:

- 1. PACKAGE CONFORMS TO JEDEC MO-255 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y.14M-1994

4/PIN 1 FLAG, END OF PACKAGE OFFSET.

MAC08AREVC

Pb-Free 8-Lead MicroPak, 1.6 mm Wide Package Number MAC08A

Fairchild does not assume any responsibility for use of any circuitry described, no circuit patent licenses are implied and Fairchild reserves the right at any time without notice to change said circuitry and specifications.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

www.fairchildsemi.com

ON Semiconductor and in are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdt/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and exp

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

Literature Distribution Center for ON Semiconductor 19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA Phone: 303-675-2175 or 800-344-3860 Toll Free USA/Canada Fax: 303-675-2176 or 800-344-3867 Toll Free USA/Canada Email: orderlit@onsemi.com N. American Technical Support: 800–282–9855 Toll Free USA/Canada
Europe, Middle East and Africa Technical Support:
Phone: 421 33 790 2910

Phone: 421 33 790 2910

Japan Customer Focus Center

Phone: 81–3–5817–1050

ON Semiconductor Website: www.onsemi.com

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Buffers & Line Drivers category:

Click to view products by ON Semiconductor manufacturer:

Other Similar products are found below:

LXV200-024SW 74AUP2G34FW3-7 HEF4043BP PI74FCT3244L MC74HCT365ADTR2G Le87401NQC Le87402MQC 028192B
042140C 051117G 070519XB NL17SZ07P5T5G NLU1GT126AMUTCG 74AUP1G17FW5-7 74LVC2G17FW4-7 CD4502BE 59628982101PA 5962-9052201PA 74LVC1G125FW4-7 NL17SH17P5T5G NL17SH125P5T5G NLV37WZ07USG RHRXH162244K1
74AUP1G34FW5-7 74AUP1G07FW5-7 74LVC2G126RA3-7 NLX2G17CMUTCG 74LVCE1G125FZ4-7 Le87501NQC 74AUP1G126FW5-7 TC74HC4050AP(F) 74LVCE1G07FZ4-7 NLX3G16DMUTCG NLX2G06AMUTCG NLVVHC1G50DFT2G NLU2G17AMUTCG
LE87100NQC LE87290YQC LE87290YQCT LE87511NQC LE87511NQCT LE87557NQC LE87557NQCT LE87614MQC
LE87614MQCT 74AUP1G125FW5-7 NLU2G16CMUTCG MC74LCX244MN2TWG NLV74VHC125DTR2G NL17SG126DFT2G