Is Now Part of

to make changes without further notice to any products arising out of the application or use of any product or ci Semiconductor products, including compliance with all I

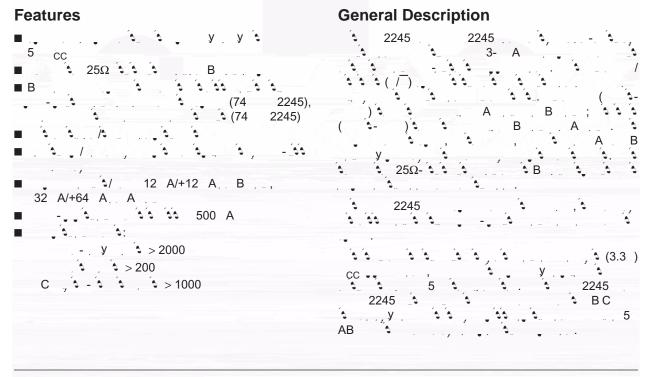


To learn more about ON Semiconductor, please visit our website at <a href="https://www.onsemi.com">www.onsemi.com</a>

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 <a href="www.onsemi.com">www.onsemi.com</a>. Please email any questions regarding the system integration to <a href="mailto:Fairchild\_questions@onsemi.com">Fairchild\_questions@onsemi.com</a>.

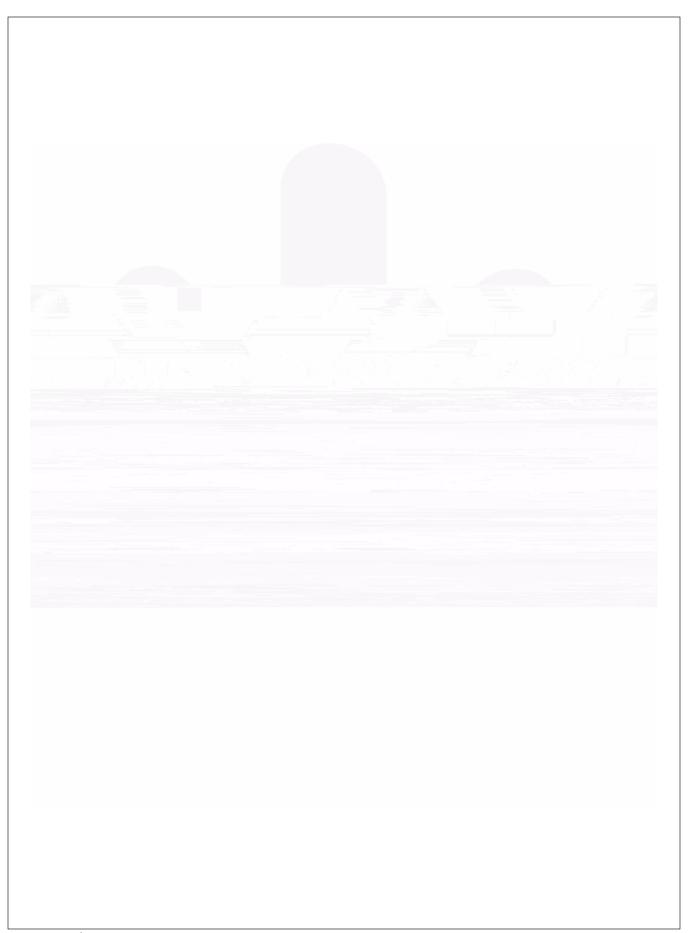
y 2008

# 74LVT2245, 74LVTH2245 Low Voltage Octal Bidirectional Transceiver with 3-STATE Inputs/Outputs and 25 $\Omega$ Series Resistors in the B Port Outputs



## **Ordering Information**

Orc	der Number	Package Number		Package Description		
74	2245	20B	20- ち	_ (\$ , (\$, (C), C	-013, 0.300"	5
74	2245	20	20- ち	, (\$ ( ), A , 5.3	<b>`\$</b>	
74	2245 C	C20	20-		C -153, 4.4	ļ
74	2245	20B	20- 🍾	( C), C	-013, 0.300"	<b>`</b> \$



# 

Symbol	Parameter	Rating
CC	т. У . , ´ф	0.5 , +4.6
	C., ., , *	0.5 , +7.0
	C	
	3- A	0.5 . +7.0
	<b>(</b> 1)	0.5 , +7.0
<b>*</b>	C	50 A
	C , (\$ C(\$, , <	50 A
	C . C . , > cc	
		64 A
		128 A
CC	C y C t y	, 64 A
		128 A
	, 6 6 . 6 . 6	65 C - 150 C

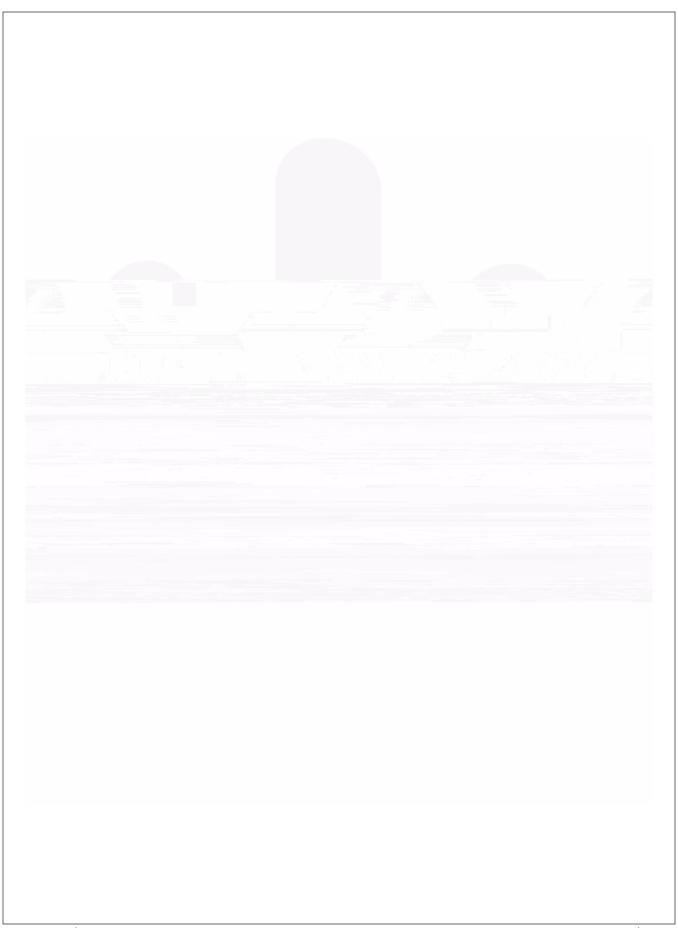
#### Note:

1. A .

# Recommended Operati g Con litions

Symbol Beramway Min May Unite

	Symrai	Parameter		IVIIN	wax	Units
	S	NO / O X		2.7	3.6	,
		19 94 1		0	5.5	
		- 3,2 - C 3 M	Α		32	Α
	11	U SLL SK	В		12	
	C.V	- 3 3	Α ,		64	Α
		I P C	В		12	
	A			40	+85	<sub>i</sub> C
1	Δ /Δ	, , = 0.8 2.0 , <sub>CC</sub>	0	10	. 1	



# Dynamic Switching Characteristics<sup>(6)</sup>

				Conditions	$T_A = 25$	C
Symbol		Parameter	$V_{CC}(V)$	$\textbf{C}_{\textbf{L}} = \textbf{50pF},  \textbf{R}_{\textbf{L}} = \textbf{500}\Omega$	Min. Typ.	Max. Units
:	<b>ý</b> .	•	3.3	(7)	0.8	
:	<b>∕</b> \$ У	•	3.3	(7)	0.8	

#### Notes:

#### **AC Electrical Characteristics**

				$T_A = -40$ °C to +85°C, $C_L = 50$ pF, $R_L = 500$ $\Omega$			
			$V_{CC}=3.3$	3V ± 0.3V	V <sub>CC</sub>	= 2.7V	
Symbol		Parameter	Min.	Max.	Min.	Max.	Units
			1.2	4.4	1.2	5.1	
			1.2	4.4	1.2	5.1	
	·	🦫 у А	1.2	3.6	1.2	4.0	
			1.2	3.5	1.2	4.0	
		\$ \$B	1.3	6.2	1.3	7.3	
			1.7	6.2	1.7	7.3	
		\$ \$A	1.3	5.5	1.3	7.1	
			1.7	5.7	1.7	6.7	
		΄\$ ΄\$ Β •	2.0	5.9	2.0	6.5	
			2.0	5.4	2.0	5.7	
		´• ´• A	2.0	5.9	2.0	6.5	
			2.0	5.0	2.0	5.1	
,	Α	(8)		1.0		1.0	
,	В ,	(8)		1.0		1.0	

# Capacitance<sup>(9)</sup>

Symbol	Parameter	Conditions	Typical	Units
С	,, C, , ′\$	$_{CC} = 0$ , $= 0$ . $_{CC}$	4	-
C <sub>=</sub>				

#### Note:

9. C<sub>y</sub> (5. (5. (5. y) = 1 , (5. - - -883, (5. 3012

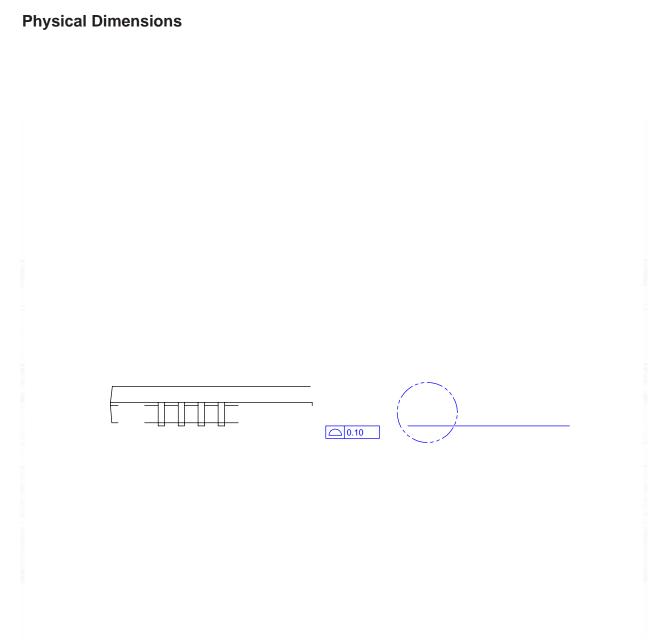
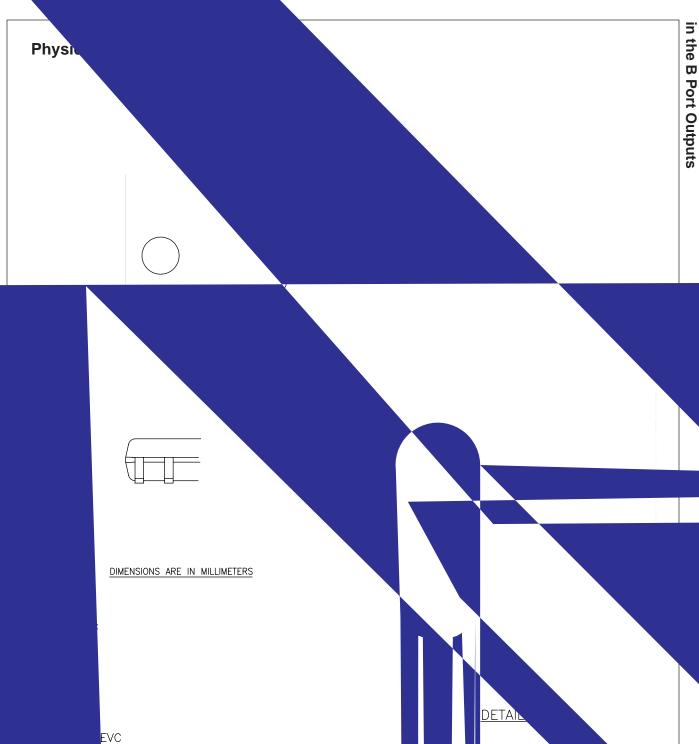


Figure 1. 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide

Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings:

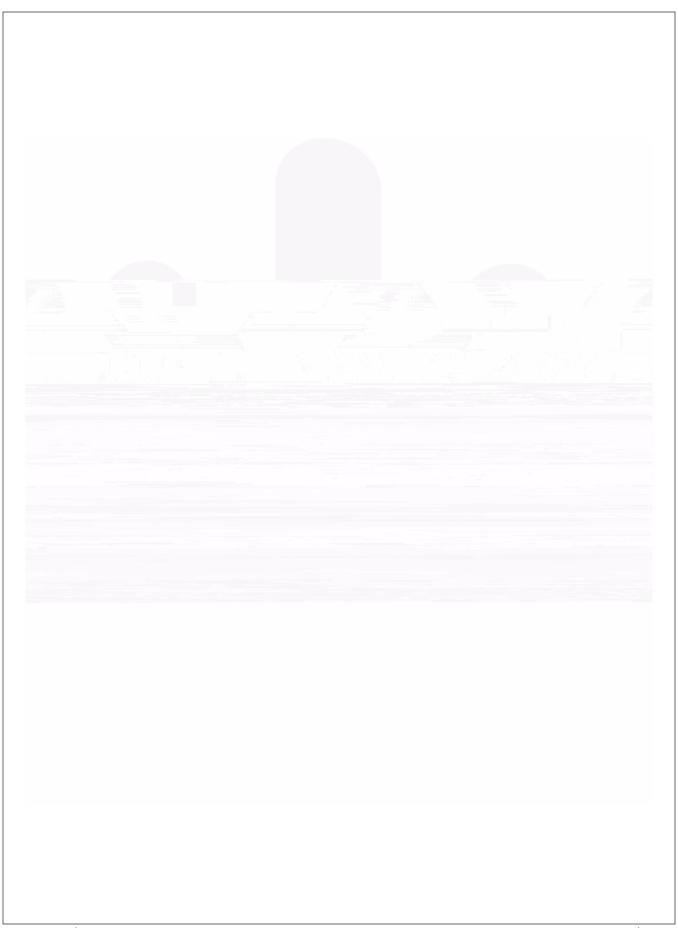
http://www.fairchildsemi.com/packaging/



### Figure 2. 20-Lead Small Outline Package (SOP) PE 5.3mm Wide

ngs are provided as a service to customers considering Fairchi powers of the revision and/or date on the drawing and contact the revision. Package specifications do not expand the term of the revision. Package specifications do not expand the term of the revision. Package specifications do not expand the term of the revision. Package specifications do not expand the term of the revision. Package specifications do not expand the term of the revision. Package specifications do not expand the term of the revision.

rchild Semiconductor's online packaging area for the most received actions drawings: hildsemi.com/packaging/





1999 ... C. C. ... C. ... 74 2245, 74 2245 ... 1.5.0