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January 2008

74AC244, 74ACT244 Octal Buffer/Line Driver with 3-STATE Outputs

Features

- I_{CC} and I_{OZ} reduced by 50%
- 3-STATE outputs drive bus lines or buffer memory address registers
- Outputs source/sink 24mA
- ACT244 has TTL-compatible inputs

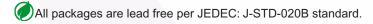
General Description

The AC/ACT244 is an octal buffer and line driver designed to be employed as a memory address driver, clock driver and bus-oriented transmitter/receiver which provides improved PC board density.

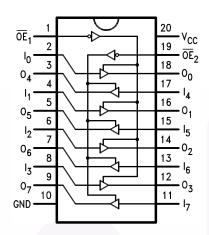
Ordering Information

Order Number	Package Number	Package Description
74AC244SC	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74AC244SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74AC244MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74AC244PC	N20A	20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide
74ACT244SC	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74ACT244SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74ACT244MSA	MSA20	20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide
74ACT244MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74ACT244PC	N20A	20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide

Device also available in Tape and Reel. Specify by appending suffix letter "X" to the ordering number.



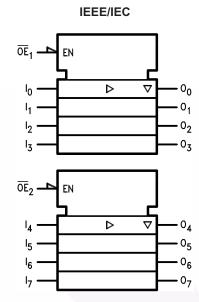
Connection Diagram



Pin Description

Pin	
Names	Description
$\overline{OE}_1, \overline{OE}_2$	3-STATE Output Enable Inputs
I ₀ —I ₇	Inputs
O ₀ -O ₇	Outputs

Logic Symbol



Truth Tables

Inputs		Outputs
OE ₁	In	(Pins 12, 14, 16, 18)
L	L	L
L	Н	Н
Н	Х	Z

Inp	uts	Outputs
OE ₂	I _n	(Pins 3, 5, 7, 9)
L	L	L
L	Н	Н
Н	Х	Z

X = Immaterial

Z = High Impedance

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
I _{IK}	DC Input Diode Current	
	$V_{I} = -0.5V$	-20mA
	$V_{I} = V_{CC} + 0.5$	+20mA
V _I	DC Input Voltage	-0.5V to V _{CC} + 0.5V
I _{OK}	DC Output Diode Current	
	$V_{O} = -0.5V$	-20mA
	$V_O = V_{CC} + 0.5V$	+20mA
Vo	DC Output Voltage	-0.5V to V _{CC} + 0.5V
Io	DC Output Source or Sink Current	±50mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current per Output Pin	±50mA
T _{STG}	Storage Temperature	−65°C to +150°C
T _J	Junction Temperature	140°C

Recommended Operating Conditions

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			
	AC	2.0V to 6.0V		
	ACT	4.5V to 5.5V		
VI	Input Voltage	0V to V _{CC}		
Vo	Output Voltage	0V to V _{CC}		
T _A	Operating Temperature	-40°C to +85°C		
ΔV / Δt	Minimum Input Edge Rate, AC Devices: 125m			
	V_{IN} from 30% to 70% of V_{CC} , V_{CC} @ 3.3V, 4.5V, 5.5V			
ΔV / Δt	Minimum Input Edge Rate, ACT Devices: 125mV			
	V _{IN} from 0.8V to 2.0V, V _{CC} @ 4.5V, 5.5V			

DC Electrical Characteristics for AC

				T _A = -	+25°C	T _A = -55°C to +125°C	T _A = -40°C to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Тур.		Guaranteed L	imits	Units
V _{IH}	Minimum HIGH Level	3.0	$V_{OUT} = 0.1V$ or	1.5	2.1	2.1	2.1	V
	Input Voltage	4.5	V _{CC} – 0.1V	2.25	3.15	3.15	3.15	
		5.5		2.75	3.85	3.85	3.85	
V _{IL}	Maximum LOW Level	3.0	$V_{OUT} = 0.1V$ or	1.5	0.9	0.9	0.9	V
	Input Voltage	4.5	V _{CC} – 0.1V	2.25	1.35	1.35	1.35	
		5.5		2.75	1.65	1.65	1.65	
V _{OH}	Minimum HIGH Level	3.0	$I_{OUT} = -50\mu A$	2.99	2.9	2.9	2.9	V
	Output Voltage	4.5		4.49	4.4	4.4	4.4	
		5.5		5.49	5.4	5.4	5.4	
		3.0	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = 12\text{mA}$		2.56	2.4	2.46	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = 24\text{mA}$		3.86	3.7	3.76	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = 24\text{mA}^{(1)}$		4.86	4.7	4.76	
V _{OL}	Maximum LOW Level	3.0	I _{OUT} = 50μA	0.002	0.1	0.1	0.1	V
	Output Voltage	4.5		0.001	0.1	0.1	0.1	
		5.5		0.001	0.1	0.1	0.1	
		3.0	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 12\text{mA}$		0.36	0.50	0.44	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}$		0.36	0.50	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}^{(1)}$		0.36	0.50	0.44	
I _{IN} ⁽²⁾	Maximum Input Leakage Current	5.5	$V_I = V_{CC}$, GND		±0.1	±1.0	±1.0	μA
I _{OZ}	Maximum 3-STATE Leakage Current	5.5	$\begin{aligned} &V_{I}\left(OE\right)=V_{IL},V_{IH};\\ &V_{I}=V_{CC},V_{GND};\\ &V_{O}=V_{CC},GND \end{aligned}$		±0.25	±5.0	±2.5	μА
I _{OLD}	Minimum Dynamic	5.5	V _{OLD} = 1.65V Max.			50	75	mA
I _{OHD}	Output Current ⁽³⁾	5.5	V _{OHD} = 3.85V Min.			-50	-75	mA
I _{CC} ⁽²⁾	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		4.0	80.0	40.0	μA

Notes:

- 1. All outputs loaded; thresholds on input associated with output under test.
- 2. I_{IN} and I_{CC} @ 3.0V are guaranteed to be less than or equal to the respective limit @ 5.5V V_{CC} .
- 3. Maximum test duration 2.0ms, one output loaded at a time.

DC Electrical Characteristics for ACT

				T _A = -	+25°C	T _A = -55°C to +125°C	T _A =-40°C to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Тур.		Guaranteed L	imits	Units
V _{IH}	Minimum HIGH Level	4.5	$V_{OUT} = 0.1V$ or	1.5	2.0	2.0	2.0	V
	Input Voltage	5.5	V _{CC} – 0.1V	1.5	2.0	2.0	2.0	
V _{IL}	Maximum LOW Level	4.5	$V_{OUT} = 0.1V$ or	1.5	0.8	0.8	0.8	V
	Input Voltage	5.5	V _{CC} – 0.1V	1.5	0.8	0.8	0.8	
V _{OH}	Minimum HIGH Level	4.5	$I_{OUT} = -50\mu A$	4.49	4.4	4.4	4.4	V
	Output Voltage	5.5		5.49	5.4	5.4	5.4	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = 24\text{mA}$		3.86	3.70	3.76	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = 24\text{mA}^{(4)}$		4.86	4.70	4.76	
V _{OL}	Maximum LOW Level	4.5	I _{OUT} = 50μA	0.001	0.1	0.1	0.1	V
	Output Voltage	5.5		0.001	0.1	0.1	0.1	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}$		0.36	0.50	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24\text{mA}^{(4)}$		0.36	0.50	0.44	
I _{IN}	Maximum Input Leakage Current	5.5	$V_I = V_{CC}$, GND		±0.1	±1.0	±1.0	μA
I _{OZ}	Maximum 3-STATE Leakage Current	5.5	$V_I = V_{IL}, V_{IH};$ $V_O = V_{CC}, GND$		±0.25	±5.0	±2.5	μΑ
I _{CCT}	Maximum I _{CC} /Input	5.5	$V_I = V_{CC} - 2.1V$	0.6		1.6	1.5	mA
I _{OLD}	Minimum Dynamic	5.5	V _{OLD} = 1.65V Max.			50	75	mA
I _{OHD}	Output Current ⁽⁵⁾	5.5	V _{OHD} = 3.85V Min.			-50	-75	mA
I _{CC}	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		4.0	80.0	40.0	μА

Notes:

- 4. All outputs loaded; thresholds on input associated with output under test.
- 5. Maximum test duration 2.0ms, one output loaded at a time.

AC Electrical Characteristics for AC

			T _A C	_ = +25° L = 50p	C, F	to +1	-55°C 25°C, 50pF	T _A = - to +8 C _L =	85°C,	
Symbol	Parameter	V _{CC} (V) ⁽⁶⁾	Min.	Тур.	Max.	Min.	Max.	Min.	Max.	Units
t _{PLH}	Propagation Delay,	3.3	2.0	6.5	9.0	1.0	12.5	1.5	10.0	ns
	Data to Output	5.0	1.5	5.0	7.0	1.0	9.5	1.0	7.5	
t _{PHL}	Propagation Delay,	3.3	2.0	6.5	9.0	1.0	12.0	2.0	10.0	ns
	Data to Output	5.0	1.5	5.0	7.0	1.0	9.0	1.0	7.5	
t _{PZH}	Output Enable Time	3.3	2.0	6.0	10.5	1.0	11.5	1.5	11.0	ns
		5.0	1.5	5.0	7.0	1.0	9.0	1.5	8.0	
t _{PZL}	Output Enable Time	3.3	2.5	7.5	10.0	1.0	13.0	2.0	11.0	ns
		5.0	1.5	5.5	8.0	1.0	10.5	1.5	8.5	
t _{PHZ}	Output Disable Time	3.3	3.0	7.0	10.0	1.0	12.5	1.5	10.5	ns
		5.0	2.5	6.5	9.0	1.0	10.5	1.0	9.5	
t _{PLZ}	Output Disable Time	3.3	2.5	7.5	10.5	1.0	13.0	2.5	11.5	ns
		5.0	2.0	6.5	9.0	1.0	11.0	2.0	9.5	

Note:

6. Voltage range 3.3 is 3.3V \pm 0.3V. Voltage range 5.0 is 5.0V \pm 0.5V.

AC Electrical Characteristics for ACT

				√ = +25° 5∟ = 50p		to +1	-55°C 25°C, 50pF	to +8	–40°C 35°C, 50pF	
Symbol	Parameter	V _{CC} (V) ⁽⁷⁾	Min.	Тур.	Max.	Min.	Max.	Min.	Max.	Units
t _{PLH}	Propagation Delay, Data to Output	5.0	2.0	6.5	9.0	1.0	10.0	1.5	10.0	ns
t _{PHL}	Propagation Delay, Data to Output	5.0	2.0	7.0	9.0	1.0	10.0	1.5	10.0	ns
t _{PZH}	Output Enable Time	5.0	1.5	6.0	8.5	1.0	9.5	1.0	9.5	ns
t _{PZL}	Output Enable Time	5.0	2.0	7.0	9.5	1.0	11.0	1.5	10.5	ns
t _{PHZ}	Output Disable Time	5.0	2.0	7.0	9.5	1.0	11.0	1.5	10.5	ns
t _{PLZ}	Output Disable Time	5.0	2.5	7.5	10.0	1.0	11.5	2.0	10.5	ns

Note:

7. Voltage range 5.0 is $5.0V \pm 0.5V$.

Capacitance

Symbol	Parameter	Conditions	Тур	Units
C _{IN}	Input Capacitance	V _{CC} = OPEN	4.5	pF
C _{PD}	Power Dissipation Capacitance	V _{CC} = 5.0V	45.0	pF

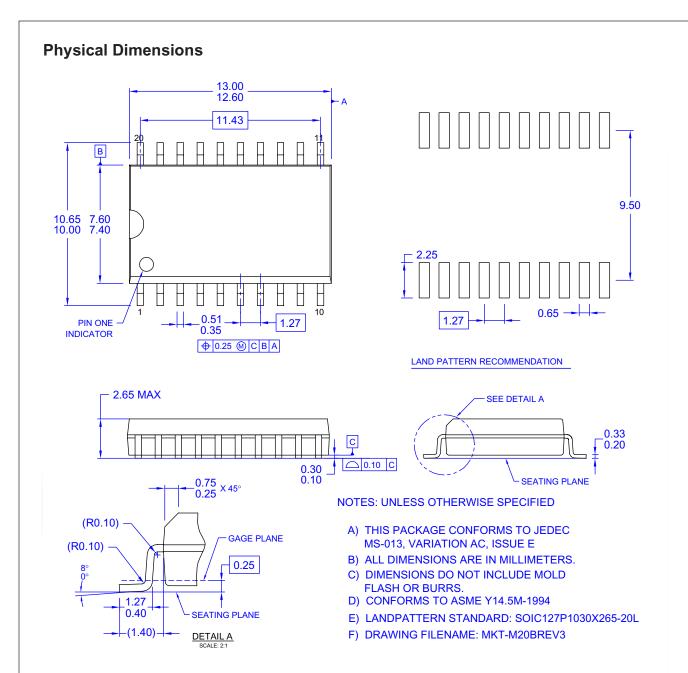
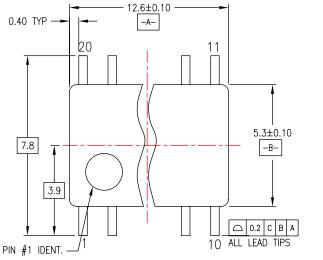
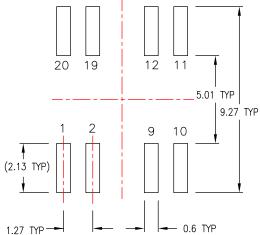


Figure 1. 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide

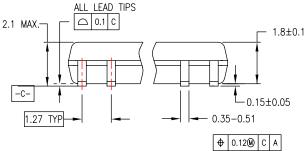
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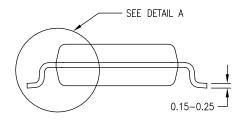
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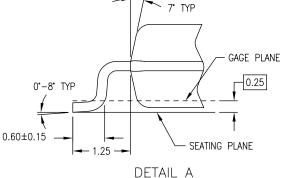




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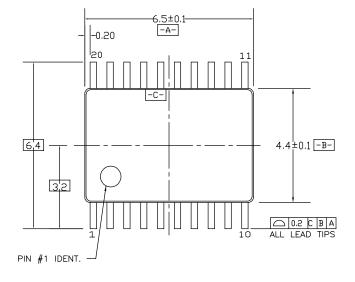
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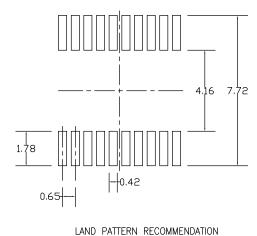
Figure 2. 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

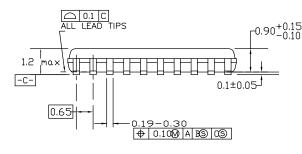
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- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

0.09-0.20J 12.00° GAGE PLANE 0 - 8° 0.6±0.11.00 R0.09min

SEE DETAIL A

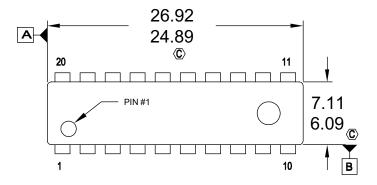
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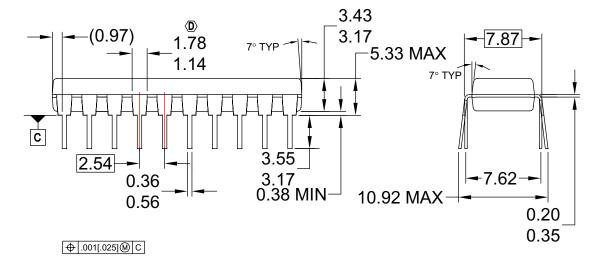
MTC20REVD1

Figure 3. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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NOTES:
A. CONFORMS TO JEDEC REGISTRATION MS-001,
VARIATIONS AD.

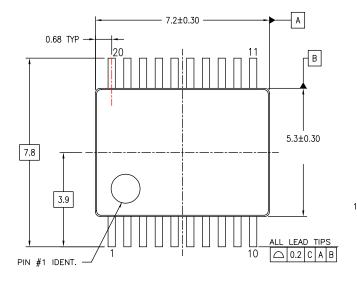
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- 0.25MM.

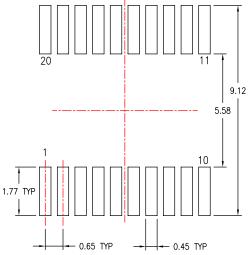
 D. DOES NOT INCLUDE DAMBAR PROTRUSIONS. DAMBAR PROTRUSIONS SHALL NOT EXCEED
- E. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- F. DRAWING FILE NAME: N20AREV8

Figure 4. 20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide

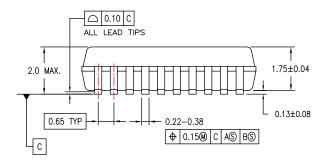
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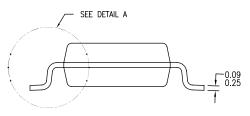
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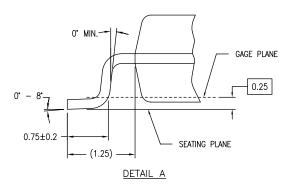




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- D. DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994.



MSA20REVB

Figure 5. 20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide

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SuperSOT™-8

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