



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_questions@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 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 expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

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.

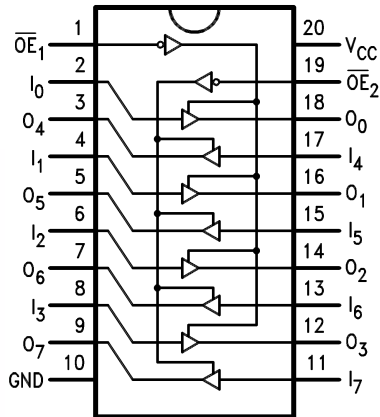
Ordering Information

| 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.

 All packages are lead free per JEDEC: J-STD-020B standard.

Connection Diagram



Logic Symbol



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 |

Truth Tables

| Inputs | | Outputs |
|-------------------|-------|-----------------------|
| \overline{OE}_1 | I_n | (Pins 12, 14, 16, 18) |
| L | L | L |
| L | H | H |
| H | X | Z |

| Inputs | | Outputs |
|-------------------|-------|-------------------|
| \overline{OE}_2 | I_n | (Pins 3, 5, 7, 9) |
| L | L | L |
| L | H | H |
| H | X | 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 |
| V_O | DC Output Voltage | -0.5V to $V_{CC} + 0.5V$ |
| I_O | DC Output Source or Sink Current | $\pm 50mA$ |
| I_{CC} or I_{GND} | DC V_{CC} or Ground Current per Output Pin | $\pm 50mA$ |
| 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 |
| V_I | Input Voltage | 0V to V_{CC} |
| V_O | Output Voltage | 0V to V_{CC} |
| T_A | Operating Temperature | -40°C to +85°C |
| $\Delta V / \Delta t$ | Minimum Input Edge Rate, AC Devices: V_{IN} from 30% to 70% of V_{CC} , V_{CC} @ 3.3V, 4.5V, 5.5V | 125mV/ns |
| $\Delta V / \Delta t$ | Minimum Input Edge Rate, ACT Devices: V_{IN} from 0.8V to 2.0V, V_{CC} @ 4.5V, 5.5V | 125mV/ns |

DC Electrical Characteristics for AC

| Symbol | Parameter | V _{CC} (V) | Conditions | T _A = +25°C | | T _A = -55°C to +125°C | T _A = -40°C to +85°C | Units | |
|--------------------------------|---|---------------------|--|---|--|----------------------------------|---------------------------------|-------|------|
| | | | | Typ. | Guaranteed Limits | | | | |
| V _{IH} | Minimum HIGH Level Input Voltage | 3.0 | V _{OUT} = 0.1V or V _{CC} - 0.1V | 1.5 | 2.1 | 2.1 | 2.1 | V | |
| | | 4.5 | | 2.25 | 3.15 | 3.15 | 3.15 | | |
| | | 5.5 | | 2.75 | 3.85 | 3.85 | 3.85 | | |
| V _{IL} | Maximum LOW Level Input Voltage | 3.0 | V _{OUT} = 0.1V or V _{CC} - 0.1V | 1.5 | 0.9 | 0.9 | 0.9 | V | |
| | | 4.5 | | 2.25 | 1.35 | 1.35 | 1.35 | | |
| | | 5.5 | | 2.75 | 1.65 | 1.65 | 1.65 | | |
| V _{OH} | Minimum HIGH Level Output Voltage | 3.0 | I _{OUT} = -50μA | 2.99 | 2.9 | 2.9 | 2.9 | V | |
| | | 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} or V _{IH} , I _{OH} = 12mA | | 2.56 | 2.4 | 2.46 | | |
| | | 4.5 | | V _{IN} = V _{IL} or V _{IH} , I _{OH} = 24mA | | 3.86 | 3.7 | | 3.76 |
| | | 5.5 | | | V _{IN} = V _{IL} or V _{IH} , I _{OH} = 24mA ⁽¹⁾ | | 4.86 | | 4.7 |
| V _{OL} | Maximum LOW Level Output Voltage | 3.0 | I _{OUT} = 50μA | 0.002 | 0.1 | 0.1 | 0.1 | V | |
| | | 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} or V _{IH} , I _{OL} = 12mA | | 0.36 | 0.50 | 0.44 | | |
| | | 4.5 | | V _{IN} = V _{IL} or V _{IH} , I _{OL} = 24mA | | 0.36 | 0.50 | | 0.44 |
| | | 5.5 | | | V _{IN} = V _{IL} or V _{IH} , I _{OL} = 24mA ⁽¹⁾ | | 0.36 | | 0.50 |
| 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 | V _I (OE) = V _{IL} , V _{IH} ; V _I = V _{CC} , V _{GND} ; V _O = V _{CC} , GND | | ±0.25 | ±5.0 | ±2.5 | μA | |
| I _{OLD} | Minimum Dynamic Output Current ⁽³⁾ | 5.5 | V _{OLD} = 1.65V Max. | | | 50 | 75 | mA | |
| I _{OHD} | | 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

| Symbol | Parameter | V _{CC} (V) | Conditions | T _A = +25°C | | T _A = -55°C to +125°C | T _A = -40°C to +85°C | Units |
|------------------|---|---------------------|--|---|-------------------|-------------------------------------|------------------------------------|-------|
| | | | | Typ. | Guaranteed Limits | | | |
| V _{IH} | Minimum HIGH Level Input Voltage | 4.5 | V _{OUT} = 0.1V or V _{CC} - 0.1V | 1.5 | 2.0 | 2.0 | 2.0 | V |
| | | 5.5 | | 1.5 | 2.0 | 2.0 | 2.0 | |
| V _{IL} | Maximum LOW Level Input Voltage | 4.5 | V _{OUT} = 0.1V or V _{CC} - 0.1V | 1.5 | 0.8 | 0.8 | 0.8 | V |
| | | 5.5 | | 1.5 | 0.8 | 0.8 | 0.8 | |
| V _{OH} | Minimum HIGH Level Output Voltage | 4.5 | I _{OUT} = -50μA | 4.49 | 4.4 | 4.4 | 4.4 | V |
| | | 5.5 | | 5.49 | 5.4 | 5.4 | 5.4 | |
| | | 4.5 | V _{IN} = V _{IL} or V _{IH} , I _{OH} = 24mA | | 3.86 | 3.70 | 3.76 | |
| | | 5.5 | | V _{IN} = V _{IL} or V _{IH} , I _{OH} = 24mA ⁽⁴⁾ | | 4.86 | 4.70 | |
| V _{OL} | Maximum LOW Level Output Voltage | 4.5 | I _{OUT} = 50μA | 0.001 | 0.1 | 0.1 | 0.1 | V |
| | | 5.5 | | 0.001 | 0.1 | 0.1 | 0.1 | |
| | | 4.5 | V _{IN} = V _{IL} or V _{IH} , I _{OL} = 24mA | | 0.36 | 0.50 | 0.44 | |
| | | 5.5 | | V _{IN} = V _{IL} or V _{IH} , I _{OL} = 24mA ⁽⁴⁾ | | 0.36 | 0.50 | |
| 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 | μA |
| I _{CC} | Maximum I _{CC} /Input | 5.5 | V _I = V _{CC} - 2.1V | 0.6 | | 1.6 | 1.5 | mA |
| I _{OLD} | Minimum Dynamic Output Current ⁽⁵⁾ | 5.5 | V _{OLD} = 1.65V Max. | | | 50 | 75 | mA |
| I _{OHD} | | 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 | μA |

Notes:

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

AC Electrical Characteristics for AC

| Symbol | Parameter | V _{CC} (V) ⁽⁶⁾ | T _A = +25°C, C _L = 50pF | | | T _A = -55°C to +125°C, C _L = 50pF | | T _A = -40°C to +85°C, C _L = 50pF | | Units |
|------------------|--------------------------------------|------------------------------------|--|------|------|---|------|--|------|-------|
| | | | Min. | Typ. | Max. | Min. | Max. | Min. | Max. | |
| t _{PLH} | Propagation Delay, Data to Output | 3.3 | 2.0 | 6.5 | 9.0 | 1.0 | 12.5 | 1.5 | 10.0 | ns |
| | | 5.0 | 1.5 | 5.0 | 7.0 | 1.0 | 9.5 | 1.0 | 7.5 | |
| t _{PHL} | Propagation Delay, Data to Output | 3.3 | 2.0 | 6.5 | 9.0 | 1.0 | 12.0 | 2.0 | 10.0 | ns |
| | | 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 ± 0.3V. Voltage range 5.0 is 5.0V ± 0.5V.

AC Electrical Characteristics for ACT

| Symbol | Parameter | V _{CC} (V) ⁽⁷⁾ | T _A = +25°C, C _L = 50pF | | | T _A = -55°C to +125°C, C _L = 50pF | | T _A = -40°C to +85°C, C _L = 50pF | | Units |
|------------------|--------------------------------------|------------------------------------|--|------|------|---|------|--|------|-------|
| | | | Min. | Typ. | Max. | Min. | Max. | Min. | Max. | |
| 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 ± 0.5V.

Capacitance

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

Physical Dimensions



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/>

Physical Dimensions (Continued)



M20DREVC

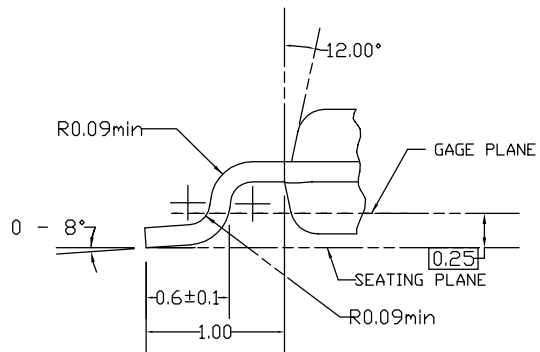
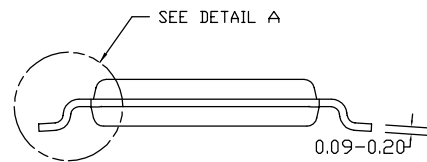
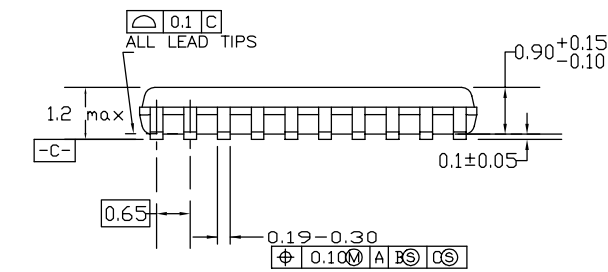
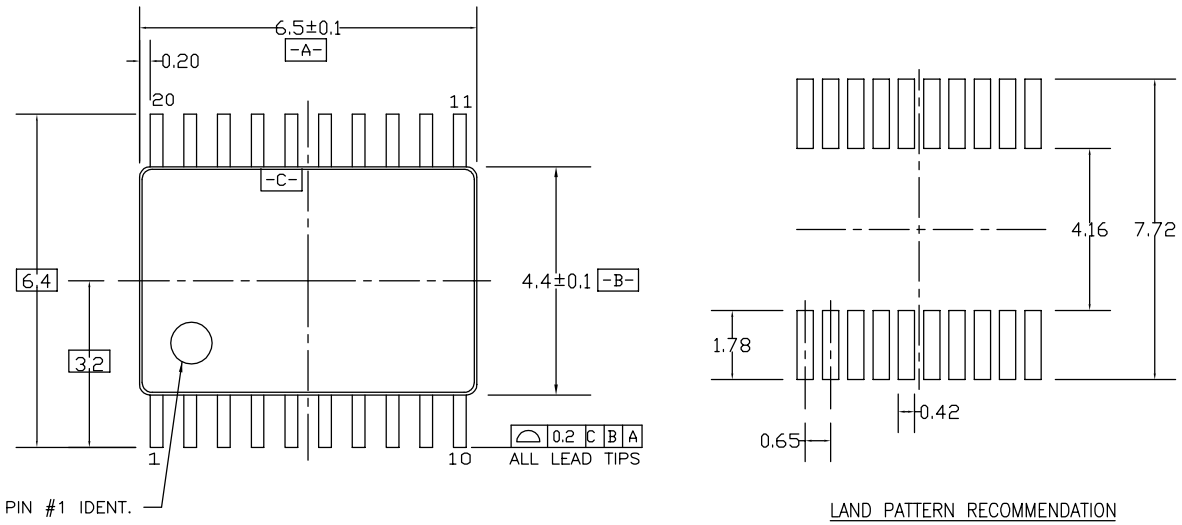
Figure 2. 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide

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/>

Physical Dimensions (Continued)



DIMENSIONS ARE IN MILLIMETERS

NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MD-153, VARIATION AC, REF NOTE 6, DATE 7/93.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLDS FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

MTC20REV D1

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

Physical Dimensions (Continued)



NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MS-001, VARIATIONS AD.
- B. ALL DIMENSIONS ARE IN MILLIMETERS
- C. DOES NOT INCLUDE MOLD FLASH OR PROTRUSIONS. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.25MM.
- D. DOES NOT INCLUDE DAMBAR PROTRUSIONS. DAMBAR PROTRUSIONS SHALL NOT EXCEED 0.25MM.
- 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

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.

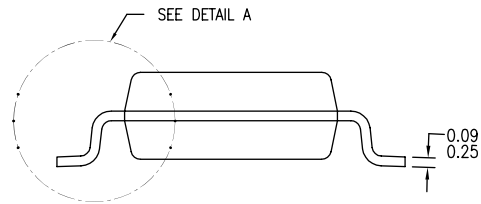
Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings:

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

Physical Dimensions (Continued)



LAND PATTERN RECOMMENDATIONS



DIMENSIONS ARE IN MILLIMETERS

NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-150, VARIATION AE, DATE 1/94.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994.



MSA20REV B

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



TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

| | | | |
|---|--|--|----------------------------------|
| ACEx [®] | FPST [™] | PDP-SPM [™] | SyncFET [™] |
| Build it Now [™] | FRFET [®] | Power220 [®] | SYSTEM [®] |
| CorePLUS [™] | Global Power Resource SM | Power247 [®] | GENERAL [®] |
| CROSSVOLT [™] | Green FPS [™] | POWEREDGE [®] | The Power Franchise [®] |
| CTL [™] | Green FPS [™] e-Series [™] | Power-SPM [™] | the power [™] |
| Current Transfer Logic [™] | GTO [™] | PowerTrench [®] | franchise |
| EcoSPARK [®] | i-Lo [™] | Programmable Active Droop [™] | TinyBoost [™] |
| EZSWITCH [™] * | IntelliMAX [™] | QFET [®] | TinyBuck [™] |
|  ™ | ISOPLANAR [™] | QS [™] | TinyLogic [®] |
|  ™ | MegaBuck [™] | QT Optoelectronics [™] | TINYOPTO [™] |
| Fairchild [®] | MICROCOUPLER [™] | Quiet Series [™] | TinyPower [™] |
| Fairchild Semiconductor [®] | MicroFET [™] | RapidConfigure [™] | TinyPWM [™] |
| FACT Quiet Series [™] | MicroPak [™] | SMART START [™] | TinyWire [™] |
| FACT [®] | MillerDrive [™] | SPM [®] | μSerDes [™] |
| FAST [®] | Motion-SPM [™] | STEALTH [™] | UHC [®] |
| FastvCore [™] * | OPTOLOGIC [®] | SuperFET [™] | Ultra FRFET [™] |
| FlashWriter [®] * | OPTOPLANAR [®] | SuperSOT [™] -3 | UniFET [™] |
| | | SuperSOT [™] -6 | VCX [™] |
| | | SuperSOT [™] -8 | |

* EZSWITCH[™] and FlashWriter[®] are trademarks of System General Corporation, used under license by Fairchild Semiconductor.

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

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 FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. 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 of the user.
2. 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.

PRODUCT STATUS DEFINITIONS

Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|------------------------|--|
| Advance Information | Formative or In Design | This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. |
| Preliminary | First Production | This datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design. |
| No Identification Needed | Full Production | This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design. |
| Obsolete | Not In Production | This datasheet contains specifications on a product that has been discontinued by Fairchild Semiconductor. The datasheet is printed for reference information only. |

Rev. I32

ON Semiconductor and  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 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 expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

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
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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ON Semiconductor:

[74ACT244MTCX](#) [74ACT244MTC](#) [74ACT244SJ](#) [74ACT244SC](#) [74ACT244SJX](#) [74ACT244SCX](#)
[74ACT244MTCX_NL](#) [74ACT244PC](#) [74ACT244MSAX](#) [74ACT244MSA](#) [74ACT244SC_Q](#) [74ACT244MTC_Q](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.