

FEATURES

- Guaranteed maximum frequency > 4GHz
- 3.3V and 5V power supply options
- Guaranteed propagation delay <440ps over temperature
- Internal 75KΩ input pull-down resistors
- Wide operating temperature range: -40°C to +85°C
- Available in 8-pin MSOP and SOIC packages


ECL Pro™

DESCRIPTION

The SY10/100EP32V is an integrated ÷2 divider with differential clock inputs.

The V_{BB} pin, an internally generated voltage supply, is available to this device only. For single-ended input conditions, the unused differential input is connected to V_{BB} as a switching reference voltage. V_{BB} may also rebias AC-coupled inputs. When used, decouple V_{BB} and V_{CC} via a 0.01μF capacitor and limit current sourcing or sinking to 0.5mA. When not used, V_{BB} should be left open.

The reset pin is asynchronous and is asserted on the rising edge. Upon power-up, the internal flip-flops will attain a random state; the reset allows for the synchronous use of multiple EP32's in a system.

The 100k series includes internal temperature compensation circuitry.

PIN NAMES

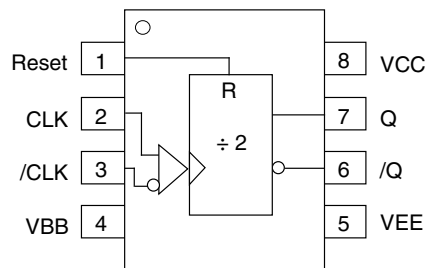
| Pin | Function |
|-----------------|--------------------------|
| CLK, /CLK | ECL Clock Inputs |
| Reset | ECL Asynchronous Reset |
| V _{BB} | Reference Voltage Output |
| Q, /Q | ECL Data Outputs |

TRUTH TABLE⁽¹⁾

| CLK | /CLK | RESET | Q | /Q |
|-----|------|-------|---|----|
| X | X | Z | L | H |
| Z | /Z | L | F | F |

Note 1: Z = LOW-to-HIGH Transition
/Z = HIGH-to-LOW Transition
F = Divide by 2 function.

PACKAGE/ORDERING INFORMATION



**8-Pin SOIC (Z8-1)
 8-Pin MSOP (K8-1)**

Ordering Information⁽¹⁾

| Part Number | Package Type | Operating Range | Package Marking | Lead Finish |
|----------------------------------|--------------|-----------------|----------------------------------------|----------------|
| SY10EP32VZC | Z8-1 | Commercial | HEP32V | Sn-Pb |
| SY10EP32VZCTR ⁽²⁾ | Z8-1 | Commercial | HEP32V | Sn-Pb |
| SY100EP32VZC | Z8-1 | Commercial | XEP32V | Sn-Pb |
| SY100EP32VZCTR ⁽²⁾ | Z8-1 | Commercial | XEP32V | Sn-Pb |
| SY10EP32VKC | K8-1 | Commercial | HP32 | Sn-Pb |
| SY10EP32VKCTR ⁽²⁾ | K8-1 | Commercial | HP32 | Sn-Pb |
| SY100EP32VKC | K8-1 | Commercial | XP32 | Sn-Pb |
| SY100EP32VKCTR ⁽²⁾ | K8-1 | Commercial | XP32 | Sn-Pb |
| SY10EP32VZI | Z8-1 | Industrial | HEP32V | Sn-Pb |
| SY10EP32VZITR ⁽²⁾ | Z8-1 | Industrial | HEP32V | Sn-Pb |
| SY100EP32VZI | Z8-1 | Industrial | XEP32V | Sn-Pb |
| SY100EP32VZITR ⁽²⁾ | Z8-1 | Industrial | XEP32V | Sn-Pb |
| SY10EP32VKI | K8-1 | Industrial | HP32 | Sn-Pb |
| SY10EP32VKITR ⁽²⁾ | K8-1 | Industrial | HP32 | Sn-Pb |
| SY100EP32VKI | K8-1 | Industrial | XP32 | Sn-Pb |
| SY100EP32VKITR ⁽²⁾ | K8-1 | Industrial | XP32 | Sn-Pb |
| SY10EP32VZG ⁽³⁾ | Z8-1 | Industrial | HEP32V with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY10EP32VZGTR ^(2, 3) | Z8-1 | Industrial | HEP32V with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY100EP32VZG ⁽³⁾ | Z8-1 | Industrial | XEP32V with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY100EP32VZGTR ^(2, 3) | Z8-1 | Industrial | XEP32V with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY10EP32VKG ⁽³⁾ | K8-1 | Industrial | HP32 with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY10EP32VKGTR ^(2, 3) | K8-1 | Industrial | HP32 with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY100EP32VKG ⁽³⁾ | K8-1 | Industrial | XP32 with Pb-Free bar-line indicator | NiPdAu Pb-Free |
| SY100EP32VKGTR ^(2, 3) | K8-1 | Industrial | XP32 with Pb-Free bar-line indicator | NiPdAu Pb-Free |

Notes:

1. Contact factory for die availability. Dice are guaranteed at T_A = 25°C, DC Electricals only.
2. Tape and Reel.
3. Pb-Free package is recommended for new designs.

ABSOLUTE MAXIMUM RATINGS⁽¹⁾

| Symbol | Rating | Value | Unit |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| $V_{CC} - V_{EE}$ | Power Supply Voltage | +6.0 | V |
| V_{IN} | Input Voltage ($V_{CC} = 0V$, V_{IN} not more negative than V_{EE}) Input Voltage ($V_{EE} = 0V$, V_{IN} not more positive than V_{CC}) | -6.0 to 0 +6.0 to 0 | V V |
| I_{OUT} | Output Current -Continuous -Surge | 50 100 | mA |
| I_{BB} | V_{BB} Sink/Source Current ⁽²⁾ | ±0.5 | mA |
| T_A | Operating Temperature Range | -40 to +85 | °C |
| T_{STORE} | Storage Temperature Range | -65 to +150 | °C |
| T_{LEAD} | Lead Temperature (soldering, 20 sec.) | +260 | °C |
| θ_{JA} | Package Thermal Resistance (Junction-to-Ambient) -Still Air SOIC -Still Air MSOP -multi-layer PCB | 160 206 | °C/W °C/W |
| θ_{JC} | Package Thermal Resistance (Junction-to-Case) SOIC MSOP | 39 39 | °C/W °C/W |

Note 1. Permanent device damage may occur if absolute maximum ratings are exceeded. This is a stress rating only and functional operation is not implied at conditions other than those detailed in the operational sections of this data sheet. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Note 2. Due to the limited drive capability, the V_{BB} reference should only be used for inputs from the same package device (i.e., do not sue for other devices).

(10EP) LVPECL DC ELECTRICAL CHARACTERISTICS⁽¹⁾

$V_{CC} = 3.3V \pm 10\%$; $V_{EE} = 0V$ ⁽²⁾

| Symbol | Parameter | $T_A = -40^\circ C$ | | | $T_A = +25^\circ C$ | | | $T_A = +85^\circ C$ | | | Unit |
|-------------|-----------------------------------------------------------------------|---------------------|-------------|----------|---------------------|--------|----------|---------------------|--------|----------|------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| I_{EE} | Power Supply Current | — | 30 | 37 | — | 30 | 37 | — | 30 | 37 | mA |
| V_{OH} | Output HIGH Voltage ⁽³⁾ | 2165 | 2290 | 2415 | 2230 | 2355 | 2480 | 2290 | 2415 | 2540 | mV |
| V_{OL} | Output LOW Voltage ⁽³⁾ | 1365 | 1490 | 1615 | 1430 | 1555 | 1680 | 1490 | 1615 | 1740 | mV |
| V_{IH} | Input HIGH Voltage (Single-Ended) | 2090 | — | 2415 | 2155 | — | 2480 | 2215 | — | 2540 | mV |
| V_{IL} | Input LOW Voltage (Single-Ended) | 1365 | — | 1690 | 1430 | — | 1755 | 1490 | — | 1815 | mV |
| V_{BB} | Output Voltage | 1790 | 1890 | 1990 | 1855 | 1955 | 2055 | 1915 | 2015 | 2115 | mV |
| V_{IHCMR} | Input HIGH Voltage ⁽⁴⁾ Common Mode Range (Differential) | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | V |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 -150 | — — | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | μA |

Note 1. 10EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

(10EP) PECL DC ELECTRICAL CHARACTERISTICS⁽¹⁾

$V_{CC} = 5.0V \pm 10\%; V_{EE} = 0V^{(2)}$

| Symbol | Parameter | $T_A = -40^\circ\text{C}$ | | | $T_A = +25^\circ\text{C}$ | | | $T_A = +85^\circ\text{C}$ | | | Unit | |
|-------------|--------------------------------------------------------------------------|---------------------------|-------------|----------|---------------------------|-------------|----------|---------------------------|-------------|----------|---------------|---------------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | | |
| I_{EE} | Power Supply Current | — | — | 37 | — | 30 | 37 | — | — | 37 | mA | |
| V_{OH} | Output HIGH Voltage ⁽³⁾ | 3865 | 3990 | 4115 | 3930 | 4055 | 4180 | 3990 | 4115 | 4240 | mV | |
| V_{OL} | Output LOW Voltage ⁽³⁾ | 3065 | 3190 | 3315 | 3130 | 3255 | 3380 | 3190 | 3315 | 3440 | mV | |
| V_{IH} | Input HIGH Voltage (Single-Ended) | 3790 | — | 4115 | 3855 | — | 4180 | 3915 | — | 4240 | mV | |
| V_{IL} | Input LOW Voltage (Single-Ended) | 3065 | — | 3390 | 3130 | — | 3455 | 3190 | — | 3515 | mV | |
| V_{BB} | Output Voltage | 3490 | 3590 | 3690 | 3555 | 3655 | 3755 | 3615 | 3715 | 3815 | mV | |
| V_{IHCMR} | Input HIGH Voltage ⁽⁴⁾ Common Mode Range (Differential) | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | V | |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA | |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | μA |

Note 1. 10EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

(10EP) ECL/LVECL DC ELECTRICAL CHARACTERISTICS⁽¹⁾

$V_{CC} = 0V; V_{EE} = -3.3V \text{ to } 5.0V \pm 10\%^{(2)}$

| Symbol | Parameter | $T_A = -40^\circ\text{C}$ | | | $T_A = +25^\circ\text{C}$ | | | $T_A = +85^\circ\text{C}$ | | | Unit | |
|-------------|--------------------------------------------------------------------------|---------------------------|-------------|--------|---------------------------|-------------|--------|---------------------------|-------------|--------|---------------|---------------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | | |
| I_{EE} | Power Supply Current | — | — | 37 | — | 30 | 37 | — | — | 37 | mA | |
| V_{OH} | Output HIGH Voltage ⁽³⁾ | -1135 | -1010 | -885 | -1070 | -945 | -820 | -1010 | -885 | -760 | mV | |
| V_{OL} | Output LOW Voltage ⁽³⁾ | -1935 | -1810 | -1685 | -1870 | -1745 | -1620 | -1810 | -1685 | -1560 | mV | |
| V_{IH} | Input HIGH Voltage (Single-Ended) | -1210 | — | -885 | -1145 | — | -820 | -1085 | — | -760 | mV | |
| V_{IL} | Input LOW Voltage (Single-Ended) | -1935 | — | -1610 | -1870 | — | -1545 | -1810 | — | -1485 | mV | |
| V_{BB} | Output Voltage | -1510 | -1410 | -1310 | -1445 | -1345 | -1245 | -1385 | -1285 | -1185 | mV | |
| V_{IHCMR} | Input HIGH Voltage ⁽⁴⁾ Common Mode Range (Differential) | $V_{EE} + 2.0$ | | 0.0 | $V_{EE} + 2.0$ | | 0.0 | $V_{EE} + 2.0$ | | 0.0 | V | |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA | |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | μA |

Note 1. 10EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. V_{IHCMR} (min) varies 1:1 with V_{EE} . The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

(100EP) LVPECL DC ELECTRICAL CHARACTERISTICS⁽¹⁾ $V_{CC} = +3.3V \pm 10\%$; $V_{EE} = 0V^{(2)}$

| Symbol | Parameter | $T_A = -40^\circ C$ | | | $T_A = +25^\circ C$ | | | $T_A = +85^\circ C$ | | | Unit |
|-------------|--------------------------------------------------------------------------|---------------------|-------------|----------|---------------------|--------|----------|---------------------|--------|----------|---------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| I_{EE} | Power Supply Current | — | — | 37 | — | 30 | 37 | — | — | 42 | mA |
| V_{OH} | Output HIGH Voltage ⁽³⁾ | 2155 | 2280 | 2405 | 2155 | 2280 | 2405 | 2155 | 2280 | 2405 | mV |
| V_{OL} | Output LOW Voltage ⁽³⁾ | 1355 | 1480 | 1605 | 1355 | 1480 | 1605 | 1355 | 1480 | 1605 | mV |
| V_{IH} | Input HIGH Voltage (Single-Ended) | 2075 | — | 2420 | 2075 | — | 2420 | 2075 | — | 2420 | mV |
| V_{IL} | Input LOW Voltage (Single-Ended) | 1355 | — | 1675 | 1355 | — | 1675 | 1355 | — | 1675 | mV |
| V_{BB} | Output Voltage | 1775 | 1875 | 1975 | 1775 | 1875 | 1975 | 1775 | 1875 | 1975 | mV |
| V_{IHCMR} | Input HIGH Voltage ⁽⁴⁾ Common Mode Range (Differential) | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | V |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 -150 | — — | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | μA |

Note 1. 100EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

(100EP) PECL DC ELECTRICAL CHARACTERISTICS⁽¹⁾ $V_{CC} = +5.0V \pm 10\%$; $V_{EE} = 0V^{(2)}$

| Symbol | Parameter | $T_A = -40^\circ C$ | | | $T_A = +25^\circ C$ | | | $T_A = +85^\circ C$ | | | Unit |
|-------------|--------------------------------------------------------------------------|---------------------|-------------|----------|---------------------|--------|----------|---------------------|--------|----------|---------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| I_{EE} | Power Supply Current | — | — | 37 | — | 30 | 37 | — | — | 42 | mA |
| V_{OH} | Output HIGH Voltage ⁽³⁾ | 3855 | 3980 | 4105 | 3855 | 3980 | 4105 | 3855 | 3980 | 4105 | mV |
| V_{OL} | Output LOW Voltage ⁽³⁾ | 3055 | 3180 | 3305 | 3055 | 3180 | 3305 | 3055 | 3180 | 3305 | mV |
| V_{IH} | Input HIGH Voltage (Single-Ended) | 3775 | — | 4120 | 3775 | — | 4120 | 3775 | — | 4120 | mV |
| V_{IL} | Input LOW Voltage (Single-Ended) | 3055 | — | 3375 | 3055 | — | 3375 | 3055 | — | 3375 | mV |
| V_{BB} | Output Voltage | 3475 | 3575 | 3675 | 3475 | 3575 | 3675 | 3475 | 3575 | 3675 | mV |
| V_{IHCMR} | Input HIGH Voltage ⁽⁴⁾ Common Mode Range (Differential) | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | 2.0 | — | V_{CC} | V |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 -150 | — — | 0.5 -150 | — — | — — | 0.5 -150 | — — | — — | μA |

Note 1. 100EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

(100EP) ECL/LVECL DC ELECTRICAL CHARACTERISTICS(1)

$V_{CC} = 0V$; $V_{EE} = -3.3V$ to $-5.0V \pm 10\%$ (2)

| Symbol | Parameter | $T_A = -40^\circ C$ | | | $T_A = +25^\circ C$ | | | $T_A = +85^\circ C$ | | | Unit |
|-------------|--------------------------------------------------------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| I_{EE} | Power Supply Current | — | — | 37 | — | 30 | 37 | — | — | 42 | mA |
| V_{OH} | Output HIGH Voltage(3) | -1145 | -1020 | -895 | -1145 | -1020 | -895 | -1145 | -1020 | -895 | mV |
| V_{OL} | Output LOW Voltage(3) | -1945 | -1820 | -1695 | -1945 | -1820 | -1695 | -1945 | -1820 | -1695 | mV |
| V_{IH} | Input HIGH Voltage (Single-Ended) | -1225 | — | -880 | -1225 | — | -880 | -1225 | — | -880 | mV |
| V_{IL} | Input LOW Voltage (Single-Ended) | -1945 | — | -1625 | -1945 | — | -1625 | -1945 | — | -1625 | mV |
| V_{BB} | Output Voltage | -1525 | -1425 | -1325 | -1525 | -1425 | -1325 | -1525 | -1425 | -1325 | mV |
| V_{IHCMR} | Input HIGH Voltage(4) Common Mode Range (Differential) | $V_{EE} + 2.0$ | | 0.0 | $V_{EE} + 2.0$ | | 0.0 | $V_{EE} + 2.0$ | | 0.0 | V |
| I_{IH} | Input HIGH Current | — | — | 150 | — | — | 150 | — | — | 150 | μA |
| I_{IL} | Input LOW Current | CLK /CLK | 0.5 | — | — | 0.5 | — | — | 0.5 | — | μA |
| | | | -150 | — | — | -150 | — | — | -150 | — | |

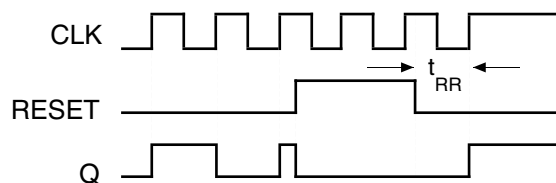
Note 1. 100EP circuits are designed to meet the DC specifications shown in the above table after thermal equilibrium has been established. The circuit is in a test socket or mounted on a printed circuit board and traverse airflow greater than 500lfpm is maintained.

Note 2. Input and output parameters vary 1:1 with V_{CC} .

Note 3. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 4. $V_{IHCMR}(\min)$ varies 1:1 with V_{EE} . The V_{IHCMR} range is referenced to the most positive side of the differential input signal.

TIMING DIAGRAM



AC ELECTRICAL CHARACTERISTICS(1)

NECL: $V_{CC} = 0V$, $V_{EE} = -3.3V$ to $-5.0V \pm 10\%$; PECL: $V_{EE} = 0V$, $V_{CC} = +3.3V$ to $+5.0V \pm 10\%$

| Symbol | Parameter | $T_A = -40^\circ C$ | | | $T_A = +25^\circ C$ | | | $T_A = +85^\circ C$ | | | Unit |
|------------------------|----------------------------------------------------------------|---------------------|------|------|---------------------|------|------|---------------------|------|------|---------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. | Min. | Typ. | Max. | |
| f_{MAX} | Maximum Frequency ⁽³⁾ | 4 | — | — | 4 | — | — | 4 | — | — | GHz |
| t_{PLH} t_{PHL} | Propagation Delay to Output Differential RESET, CLK → Q, /Q | 250 | 330 | 420 | 260 | 275 | 430 | 280 | 400 | 440 | ps |
| t_{RR} | Set/Reset Recovery | 200 | — | — | 200 | 100 | — | 200 | — | — | ps |
| t_{PW} | Minimum Pulse Width RESET | 550 | — | — | 550 | 200 | — | 550 | — | — | ps |
| t_{JITTER} | Cycle-to-Cycle RMS Jitter ⁽²⁾ | — | 0.2 | < 1 | — | 0.2 | < 1 | — | 0.2 | < 1 | ps(rms) |
| V_{PP} | Input Voltage Swing (Differential) | 150 | 800 | 1200 | 150 | 800 | 1200 | 150 | 800 | 1200 | mV |
| t_r t_f | Output Rise/Fall Times Q, /Q (20% to 80%) | 50 | 100 | 150 | 50 | 100 | 160 | 50 | 100 | 160 | ps |

Note 1. Measured using a 750mV source, 50% duty cycle clock source. All loading with 50Ω to $V_{CC} - 2.0V$.

Note 2. See Figure 1. f_{MAX} Jitter below.

Note 3. f_{MAX} guaranteed for functionality only. V_{OL} and V_{OH} levels are guaranteed at DC only.

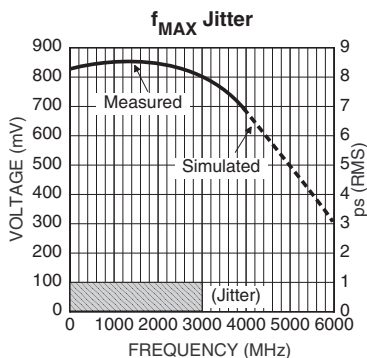
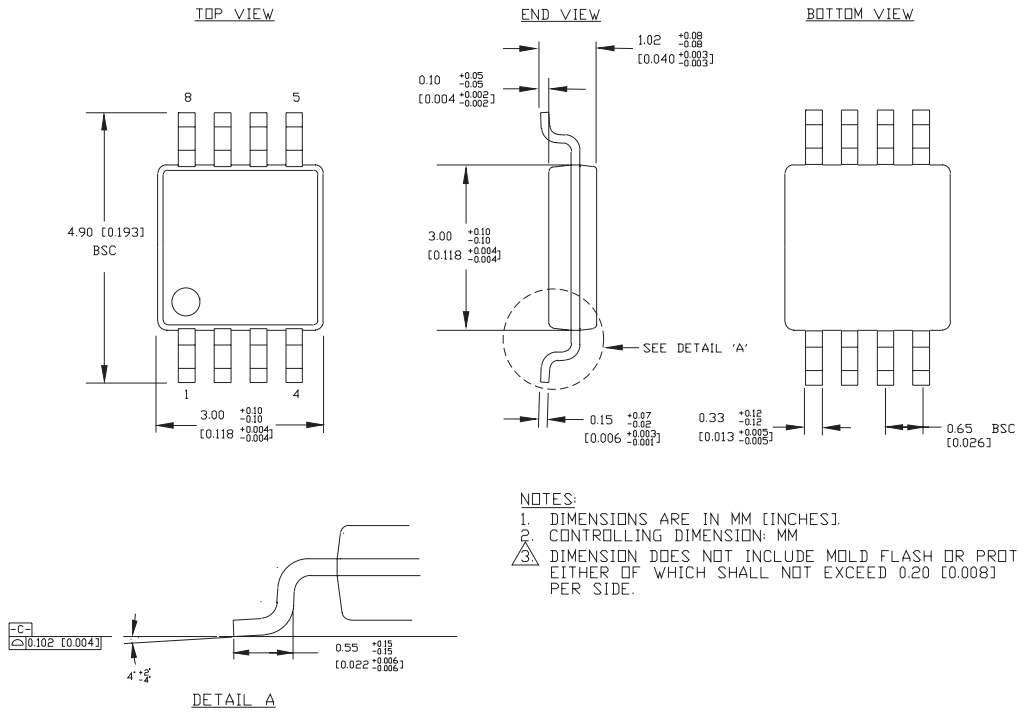


Figure 1. f_{MAX} and RMS Jitter

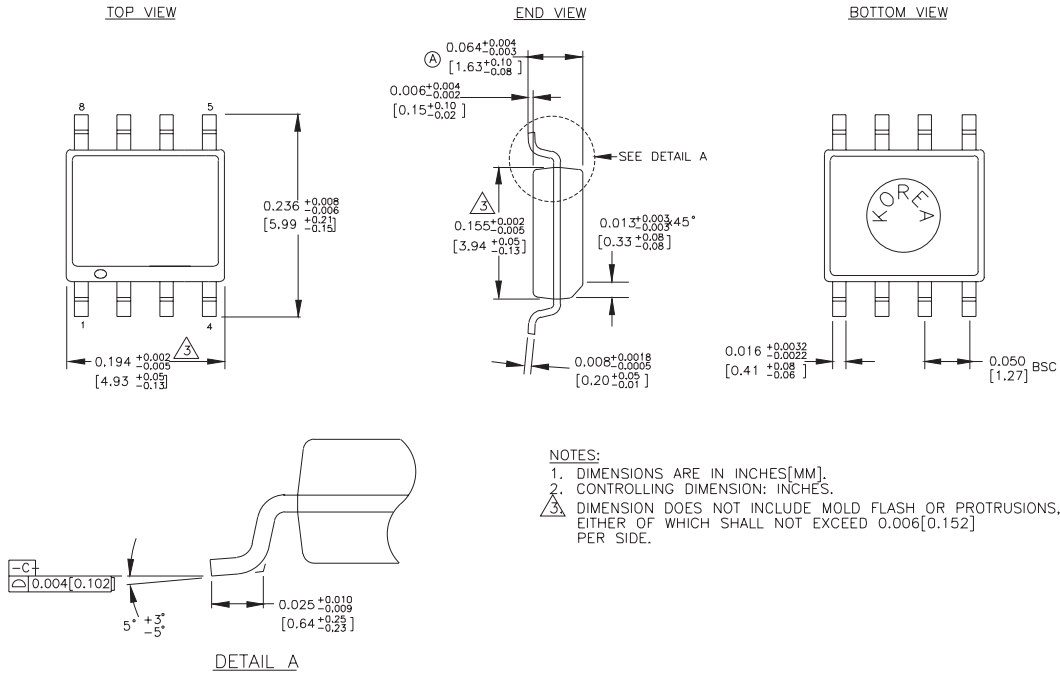
8 LEAD MSOP (K8-1)



NOTES:
 1. DIMENSIONS ARE IN MM [INCHES]
 2. CONTROLLING DIMENSION: MM
 3. DIMENSION DOES NOT INCLUDE MOLD FLASH OR PROTRUSIONS, EITHER OF WHICH SHALL NOT EXCEED 0.20 [0.008] PER SIDE.

Rev. 01

8 LEAD SOIC .150" WIDE (Z8-1)



Rev. 03

MICREL, INC. 2180 FORTUNE DRIVE SAN JOSE, CA 95131 USA

TEL + 1 (408) 944-0800 FAX + 1 (408) 474-1000 WEB <http://www.micrel.com>

The information furnished by Micrel in this datasheet is believed to be accurate and reliable. However, no responsibility is assumed by Micrel for its use. Micrel reserves the right to change circuitry and specifications at any time without notification to the customer.

Micrel Products are not designed or authorized for use as components in life support appliances, devices or systems where malfunction of a product can reasonably be expected to result in personal injury. Life support devices or systems are devices or systems that (a) are intended for surgical implant into the body or (b) support or sustain life, and whose failure to perform can be reasonably expected to result in a significant injury to the user. A Purchaser's use or sale of Micrel Products for use in life support appliances, devices or systems is at Purchaser's own risk and Purchaser agrees to fully indemnify Micrel for any damages resulting from such use or sale.

© 2005 Micrel, Incorporated.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9