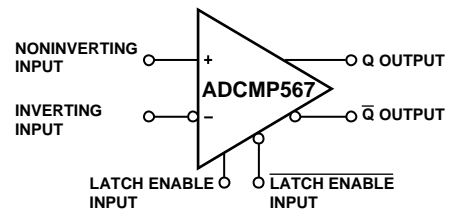


**FEATURES**

250 ps propagation delay input to output  
50 ps propagation delay dispersion  
Differential PECL compatible outputs  
Differential latch control  
Robust input protection  
Input common-mode range  $-2.0\text{ V}$  to  $+3.0\text{ V}$   
Input differential range  $\pm 5\text{ V}$   
ESD protection  $>3\text{ kV HBM}$ ,  $>200\text{ V MM}$   
Power supply sensitivity  $>65\text{ dB}$   
200 ps minimum pulsewidth  
5 GHz equivalent input rise time bandwidth  
Typical output rise/fall of 165 ps

**APPLICATIONS**

High speed instrumentation  
Scope and logic analyzer front ends  
Window comparators  
High speed line receivers and signal restoration  
Threshold detection  
Peak detection  
High speed triggers  
Patient diagnostics  
Disk drive read channel detection  
Hand-held test instruments  
Zero-crossing detectors  
Clock drivers  
Automatic test equipment

**FUNCTIONAL BLOCK DIAGRAM**

03632-0-001

Figure 1.

**GENERAL DESCRIPTION**

The ADCMP567 is an ultrafast voltage comparator fabricated on Analog Devices' proprietary XFCB process. The device features 250 ps propagation delay with less than 35 ps overdrive dispersion. Overdrive dispersion, a particularly important characteristic of high speed comparators, is a measure of the difference in propagation delay under differing overdrive conditions.

A fast, high precision differential input stage permits consistent propagation delay with a wide variety of signals in the common-mode range from  $-2.0\text{ V}$  to  $+3.0\text{ V}$ . Outputs are complementary digital signals fully compatible with PECL 10 K and 10 KH logic families. The outputs provide sufficient drive current to directly drive transmission lines terminated in  $50\ \Omega$  to  $V_{DD} - 2\text{ V}$ . A latch input is included, which permits tracking, track-and-hold, or sample-and-hold modes of operation.

The ADCMP567 is available in a 32-lead LFCSP package.

**Rev. 0**

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## REVISION HISTORY

Revision 0: Initial Version

## SPECIFICATIONS

Table 1. ADCMP567 ELECTRICAL CHARACTERISTICS ( $V_{CC} = +5.0\text{ V}$ ,  $V_{EE} = -5.2\text{ V}$ ,  $V_{DD} = +3.3\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise noted.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
DC INPUT CHARACTERISTICS (See Note)						
Input Common-Mode Range	$V_{CM}$		-2.0		+3.0	V
Input Differential Voltage			-5		+5	V
Input Offset Voltage	$V_{OS}$		-5.0	$\pm 1.0$	+5.0	mV
Input Offset Voltage Channel Matching				$\pm 1.0$		mV
Offset Voltage Tempco	$DV_{OS}/dT$			10.0		$\mu\text{V}/^\circ\text{C}$
Input Bias Current	$I_{BC}$		-10	+24	+42	$\mu\text{A}$
Input Bias Current Tempco				10.0		$\text{nA}/^\circ\text{C}$
Input Offset Current			-8.0	$\pm 0.5$	+8.0	$\mu\text{A}$
Input Capacitance	$C_{IN}$			0.75		pF
Input Resistance, Differential Mode				100		k $\Omega$
Input Resistance, Common Mode				600		k $\Omega$
Open Loop Gain				60		dB
Common-Mode Rejection Ratio	CMRR	$V_{CM} = -2.0\text{ V to }+3.0\text{ V}$		69		dB
Hysteresis				$\pm 1.0$		mV
LATCH ENABLE CHARACTERISTICS						
Latch Enable Common-Mode Range	$V_{LCM}$		$V_{DD} - 2.0$		$V_{DD}$	V
Latch Enable Differential Input Voltage	$V_{LD}$		0.4		2.0	V
Input High Current		@ 0.0 V	-12	+6	+12	$\mu\text{A}$
Input Low Current		@ -2.0 V	-12	+6	+12	$\mu\text{A}$
Latch Setup Time	$t_S$	250 mV overdrive		50		ps
Latch to Output Delay	$t_{PLOH}, t_{PLOL}$	250 mV overdrive		300		ps
Latch Pulswidth	$t_{PL}$	250 mV overdrive		150		ps
Latch Hold Time	$t_H$	250 mV overdrive		90		ps
OUTPUT CHARACTERISTICS						
Output Voltage—High Level	$V_{OH}$	PECL 50 $\Omega$ to -2.0 V	$V_{DD} - 1.1$		$V_{DD} - 0.81$	V
Output Voltage—Low Level	$V_{OL}$	PECL 50 $\Omega$ to -2.0 V	$V_{DD} - 1.95$		$V_{DD} - 1.54$	V
Rise Time	$t_R$	20% to 80%		175		ps
Fall Time	$t_F$	20% to 80%		140		ps
AC PERFORMANCE						
Propagation Delay	$t_{PD}$	1 V overdrive		250		ps
Propagation Delay	$t_{PD}$	20 mV overdrive		300		ps
Propagation Delay Tempco				0.5		$\text{ps}/^\circ\text{C}$
Prop Delay Skew—Rising Transition to Falling Transition				$\pm 10$		ps
Within Device Propagation Delay Skew—Channel to Channel				$\pm 10$		ps
Propagation Delay Dispersion vs. Duty Cycle				$\pm 10$		ps
Propagation Delay Dispersion vs. Overdrive		50 mV to 1.5 V		35		ps
Propagation Delay Dispersion vs. Overdrive		20 mV to 1.5 V		50		ps
Propagation Delay Dispersion vs. Slew Rate		0 V to 1 V swing, 20% to 80%, 50 ps and 600 ps		50		ps
Propagation Delay Dispersion vs. Common-Mode Voltage		1 V swing, -1.5 V to 2.5 $V_{CM}$		5		ps

# ADCMP567

Parameter	Symbol	Condition	Min	Typ	Max	Unit
AC PERFORMANCE (continued)						
Equivalent Input Rise Time Bandwidth	BW	0 V to 1 V swing, 20% to 80%, 50 ps $t_R$ , $t_F$	3500	5000		MHz
Toggle Rate		>50% output swing		5		Gbps
Minimum Pulsewidth	PW	$\Delta t_{PD}$ from 10 ns to 200 ps < $\pm 25$ ps		200		ps
Unit to Unit Propagation Delay Skew				$\pm 10$		ps
POWER SUPPLY						
Positive Supply Current	$I_{V_{CC}}$	@ +5.0 V	7	13	20	mA
Negative Supply Current	$I_{V_{EE}}$	@ -5.2 V	60	78	95	mA
Logic Supply Current	$I_{V_{DD}}$	@ 3.3 V, without load	8	13	18	mA
Logic Supply Current	$I_{V_{DD}}$	@ 3.3 V, with load	50	65	80	mA
Positive Supply Voltage	$V_{CC}$	Dual	4.75	5.0	5.25	V
Negative Supply Voltage	$V_{EE}$	Dual	-4.96	-5.2	-5.45	V
Logic Supply Voltage	$V_{DD}$	Dual	2.5	3.3	5.0	V
Power Dissipation		Dual, without load	415	515	615	mW
Power Dissipation		Dual, with load		575	675	mW
Power Supply Sensitivity— $V_{CC}$	$PSS_{V_{CC}}$			69		dB
Power Supply Sensitivity— $V_{EE}$	$PSS_{V_{EE}}$			85		dB
Power Supply Sensitivity— $V_{DD}$	$PSS_{V_{DD}}$			70		dB

**NOTE:** Under no circumstances should the input voltages exceed the supply voltages.

## ABSOLUTE MAXIMUM RATINGS

Table 2. ADCMP567 Absolute Maximum Ratings

	Parameter	Rating
<b>Supply Voltages</b>	Positive Supply Voltage (V <sub>CC</sub> to GND)	–0.5 V to +6.0 V
	Negative Supply Voltage (V <sub>EE</sub> to GND)	–6.0 V to +0.5 V
	Logic Supply Voltage (V <sub>DD</sub> to GND)	–0.5 V to +6.0 V
	Ground Voltage Differential	–0.5 V to +0.5 V
<b>Input Voltages</b>	Input Common-Mode Voltage	–3.0 V to +4.0 V
	Differential Input Voltage	–7.0 V to +7.0 V
	Input Voltage, Latch Controls	–0.5 V to +5.5 V
<b>Output</b>	Output Current	30 mA
<b>Temperature</b>	Operating Temperature, Ambient	–40°C to +85°C
	Operating Temperature, Junction	125°C
	Storage Temperature Range	–65°C to +150°C

Stress above those listed under Absolute Maximum Ratings may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

### ESD CAUTION

ESD (electrostatic discharge) sensitive device. Electrostatic charges as high as 4000 V readily accumulate on the human body and test equipment and can discharge without detection. Although this product features proprietary ESD protection circuitry, permanent damage may occur on devices subjected to high energy electrostatic discharges. Therefore, proper ESD precautions are recommended to avoid performance degradation or loss of functionality.

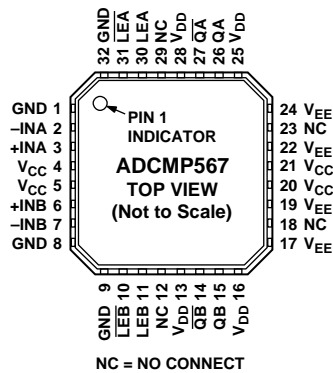


### THERMAL CONSIDERATIONS

The ADCMP567 LFCSP 32-lead package option has a  $\theta_{JA}$  (junction-to-ambient thermal resistance) of 27.2°C/W in still air.

# ADCMP567

## PIN CONFIGURATION AND FUNCTION DESCRIPTIONS



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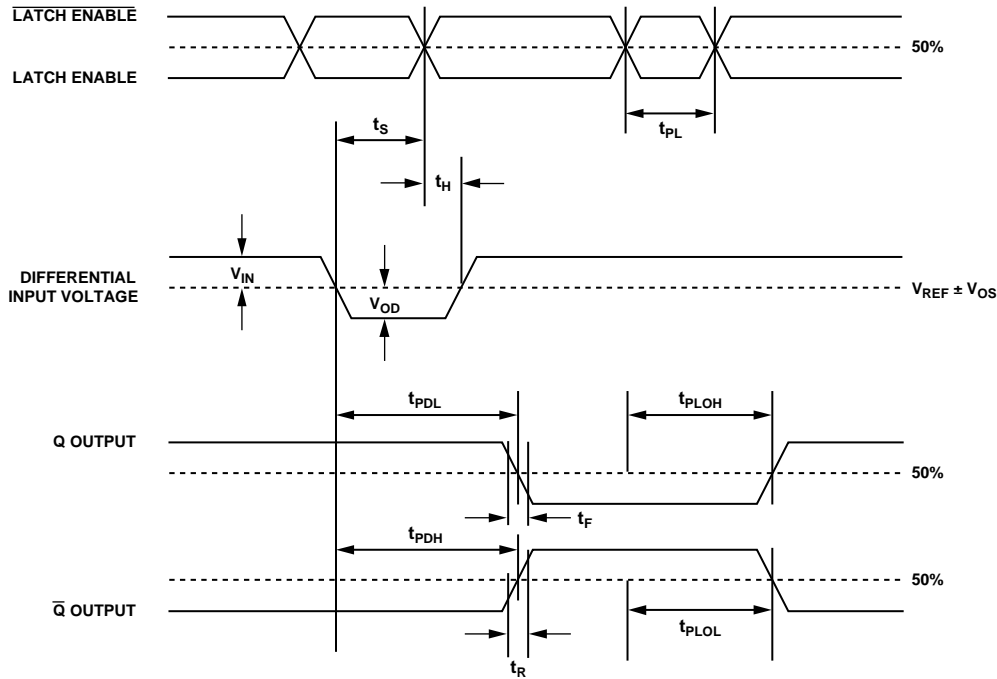
Figure 2. ADCMP567 Pin Configuration

Table 3. ADCMP567 Pin Descriptions

Pin No.	Mnemonic	Function
1	GND	Analog Ground
2	-INA	Inverting analog input of the differential input stage for Channel A. The inverting A input must be driven in conjunction with the noninverting A input.
3	+INA	Noninverting analog input of the differential input stage for Channel A. The noninverting A input must be driven in conjunction with the inverting A input.
4	V <sub>CC</sub>	Positive Supply Terminal
5	V <sub>CC</sub>	Positive Supply Terminal
6	+INB	Noninverting analog input of the differential input stage for Channel B. The noninverting B input must be driven in conjunction with the inverting B input.
7	-INB	Inverting analog input of the differential input stage for Channel B. The inverting B input must be driven in conjunction with the noninverting B input.
8	GND	Analog Ground
9	GND	Analog Ground
10	$\overline{LEB}$	One of two complementary inputs for Channel B Latch Enable. In the compare mode (logic low), the output will track changes at the input of the comparator. In the latch mode (logic high), the output will reflect the input state just prior to the comparator's being placed in the latch mode. LEB must be driven in conjunction with LEB.
11	LEB	One of two complementary inputs for Channel B Latch Enable. In the compare mode (logic high), the output will track changes at the input of the comparator. In the latch mode (logic low), the output will reflect the input state just prior to the comparator's being placed in the latch mode. $\overline{LEB}$ must be driven in conjunction with LEB.
12	NC	No Connect. Leave pin unconnected.
13	V <sub>DD</sub>	Logic Supply Terminal
14	$\overline{QB}$	One of two complementary outputs for Channel B. $\overline{QB}$ will be at logic low if the analog voltage at the noninverting input is greater than the analog voltage at the inverting input (provided the comparator is in the compare mode). See the LEB description (Pin 11) for more information.
15	QB	One of two complementary outputs for Channel B. QB will be at logic high if the analog voltage at the noninverting input is greater than the analog voltage at the inverting input (provided the comparator is in the compare mode). See the LEB description (Pin 11) for more information.
16	V <sub>DD</sub>	Logic Supply Terminal
17	V <sub>EE</sub>	Negative Supply Terminal
18	NC	No Connect. Leave pin unconnected.
19	V <sub>EE</sub>	Negative Supply Terminal
20	V <sub>CC</sub>	Positive Supply Terminal
21	V <sub>CC</sub>	Positive Supply Terminal

Pin No.	Mnemonic	Function
22	V <sub>EE</sub>	Negative Supply Terminal
23	NC	No Connect. Leave pin unconnected.
24	V <sub>EE</sub>	Negative Supply Terminal
25	V <sub>DD</sub>	Logic Supply Terminal
26	QA	One of two complementary outputs for Channel A. QA will be at logic high if the analog voltage at the noninverting input is greater than the analog voltage at the inverting input (provided the comparator is in the compare mode). See the LEA description (Pin 30) for more information.
27	$\overline{QA}$	One of two complementary outputs for Channel A. $\overline{QA}$ will be at logic low if the analog voltage at the noninverting input is greater than the analog voltage at the inverting input (provided the comparator is in the compare mode). See the LEA description (Pin 30) for more information.
28	V <sub>DD</sub>	Logic Supply Terminal
29	NC	No Connect. Leave pin unconnected.
30	LEA	One of two complementary inputs for Channel A Latch Enable. In the compare mode (logic high), the output will track changes at the input of the comparator. In the latch mode (logic low), the output will reflect the input state just prior to the comparator's being placed in the latch mode. LEA must be driven in conjunction with $\overline{LEA}$ .
31	$\overline{LEA}$	One of two complementary inputs for Channel A Latch Enable. In the compare mode (logic low), the output will track changes at the input of the comparator. In the latch mode (logic high), the output will reflect the input state just prior to the comparator's being placed in the latch mode. LEA must be driven in conjunction with LEA.
32	GND	Analog Ground

## TIMING INFORMATION



03633-0-003

Figure 3. System Timing Diagram

The timing diagram in Figure 3 shows the ADCMP567 compare and latch features. Table 4 describes the terms in the diagram.

Table 4. Timing Descriptions

Symbol	Timing	Description
$t_{PDH}$	Input to output high delay	Propagation delay measured from the time the input signal crosses the reference ( $\pm$ the input offset voltage) to the 50% point of an output low-to-high transition
$t_{PDL}$	Input to output low delay	Propagation delay measured from the time the input signal crosses the reference ( $\pm$ the input offset voltage) to the 50% point of an output high-to-low transition
$t_{PLOH}$	Latch enable to output high delay	Propagation delay measured from the 50% point of the Latch Enable signal low-to-high transition to the 50% point of an output low-to-high transition
$t_{PLOL}$	Latch enable to output low delay	Propagation delay measured from the 50% point of the Latch Enable signal low-to-high transition to the 50% point of an output high-to-low transition

Symbol	Timing	Description
$t_H$	Minimum hold time	Minimum time after the negative transition of the Latch Enable signal that the input signal must remain unchanged to be acquired and held at the outputs
$t_{PL}$	Minimum latch enable pulsewidth	Minimum time that the Latch Enable signal must be high to acquire an input signal change
$t_S$	Minimum setup time	Minimum time before the negative transition of the Latch Enable signal that an input signal change must be present to be acquired and held at the outputs
$t_R$	Output rise time	Amount of time required to transition from a low to a high output as measured at the 20% and 80% points
$t_F$	Output fall time	Amount of time required to transition from a high to a low output as measured at the 20% and 80% points
$V_{OD}$	Voltage overdrive	Difference between the differential input and reference input voltages



## APPLICATION INFORMATION

The ADCMP567 comparators are very high speed devices. Consequently, high speed design techniques must be employed to achieve the best performance. The most critical aspect of any ADCMP567 design is the use of a low impedance ground plane. A ground plane, as part of a multilayer board, is recommended for proper high speed performance. Using a continuous conductive plane over the surface of the circuit board can create this, allowing breaks in the plane only for necessary signal paths. The ground plane provides a low inductance ground, eliminating any potential differences at different ground points throughout the circuit board caused by ground bounce. A proper ground plane also minimizes the effects of stray capacitance on the circuit board.

It is also important to provide bypass capacitors for the power supply in a high speed application. A 1  $\mu$ F electrolytic bypass capacitor should be placed within 0.5 inches of each power supply pin to ground. These capacitors will reduce any potential voltage ripples from the power supply. In addition, a 10 nF ceramic capacitor should be placed as close as possible from the power supply pins on the ADCMP567 to ground. These capacitors act as a charge reservoir for the device during high frequency switching.

The LATCH ENABLE input is active low (latched). If the latching function is not used, the LATCH ENABLE input should be attached to  $V_{DD}$  ( $V_{DD}$  is a PECL logic high), and the complementary input,  $\overline{\text{LATCH ENABLE}}$ , should be tied to  $V_{DD} - 2.0$  V. This will disable the latching function.

Occasionally, one of the two comparator stages within the ADCMP567 will not be used. The inputs of the unused comparator should not be allowed to float. The high internal gain may cause the output to oscillate (possibly affecting the comparator that is being used) unless the output is forced into a fixed state. This is easily accomplished by ensuring that the two inputs are at least one diode drop apart, while also appropriately connecting the LATCH ENABLE and  $\overline{\text{LATCH ENABLE}}$  inputs as described above.

The best performance is achieved with the use of proper PECL terminations. The open emitter outputs of the ADCMP567 are designed to be terminated through 50  $\Omega$  resistors to  $V_{DD} - 2.0$  V, or any other equivalent PECL termination. If high speed PECL signals must be routed more than a centimeter, microstrip or stripline techniques may be required to ensure proper transition times and prevent output ringing.

### CLOCK TIMING RECOVERY

Comparators are often used in digital systems to recover clock timing signals. High speed square waves transmitted over a distance, even tens of centimeters, can become distorted due to stray capacitance and inductance. Poor layout or improper termination can also cause reflections on the transmission line, further distorting the signal waveform. A high speed comparator can be used to recover the distorted waveform while maintaining a minimum of delay.

### OPTIMIZING HIGH SPEED PERFORMANCE

As with any high speed comparator amplifier, proper design and layout techniques should be used to ensure optimal performance from the ADCMP567. The performance limits of high speed circuitry can easily be a result of stray capacitance, improper ground impedance, or other layout issues.

Minimizing resistance from source to the input is an important consideration in maximizing the high speed operation of the ADCMP567. Source resistance in combination with equivalent input capacitance could cause a lagged response at the input, thus delaying the output. The input capacitance of the ADCMP567 in combination with stray capacitance from an input pin to ground could result in several picofarads of equivalent capacitance. A combination of 3 k $\Omega$  source resistance and 5 pF of input capacitance yields a time constant of 15 ns, which is significantly slower than the sub 500 ps capability of the ADCMP567. Source impedances should be significantly less than 100  $\Omega$  for best performance.

Sockets should be avoided due to stray capacitance and inductance. If proper high speed techniques are used, the ADCMP567 should be free from oscillation when the comparator input signal passes through the switching threshold.

### COMPARATOR PROPAGATION DELAY DISPERSION

The ADCMP567 has been specifically designed to reduce propagation delay dispersion over an input overdrive range of 100 mV to 1 V. Propagation delay overdrive dispersion is the change in propagation delay that results from a change in the degree of overdrive (how far the switching point is exceeded by the input). The overall result is a higher degree of timing accuracy since the ADCMP567 is far less sensitive to input variations than most comparator designs.

Propagation delay dispersion is a specification that is important in critical timing applications such as ATE, bench instruments, and nuclear instrumentation. Overdrive dispersion is defined

# ADCMP567

as the variation in propagation delay as the input overdrive conditions are changed (Figure 4). For the ADCMP567, overdrive dispersion is typically 35 ps as the overdrive is changed from 100 mV to 1 V. This specification applies for both positive and negative overdrive since the ADCMP567 has equal delays for positive and negative going inputs.

The 35 ps propagation delay overdrive dispersion of the ADCMP567 offers considerable improvement of the 100 ps dispersion of other similar series comparators.

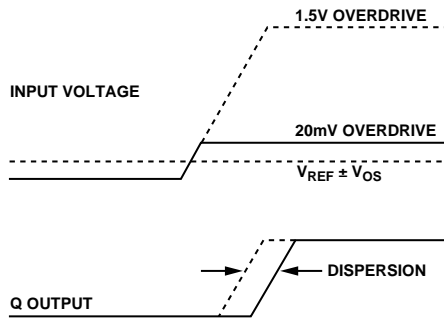


Figure 4. Propagation Delay Dispersion

## COMPARATOR HYSTERESIS

The addition of hysteresis to a comparator is often useful in a noisy environment or where it is not desirable for the comparator to toggle between states when the input signal is at the switching threshold. The transfer function for a comparator with hysteresis is shown in Figure 5. If the input voltage approaches the threshold from the negative direction, the comparator will switch from a 0 to a 1 when the input crosses  $+V_H/2$ . The new switching threshold becomes  $-V_H/2$ . The comparator will remain in a 1 state until the threshold  $-V_H/2$  is crossed coming from the positive direction. In this manner, noise centered on 0 V input will not cause the comparator to switch states unless it exceeds the region bounded by  $\pm V_H/2$ .

Positive feedback from the output to the input is often used to produce hysteresis in a comparator (Figure 9). The major problem with this approach is that the amount of hysteresis varies with the output logic levels, resulting in a hysteresis that is not symmetrical around zero.

Another method to implement hysteresis is generated by introducing a differential voltage between  $\overline{\text{LATCH ENABLE}}$  and  $\text{LATCH ENABLE}$  inputs (Figure 10). Hysteresis generated in this manner is independent of output swing and is symmetrical around zero. The variation of hysteresis with input voltage is shown in Figure 6.

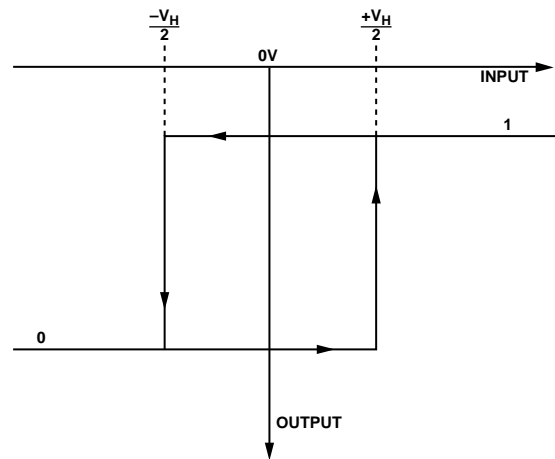


Figure 5. Comparator Hysteresis Transfer Function

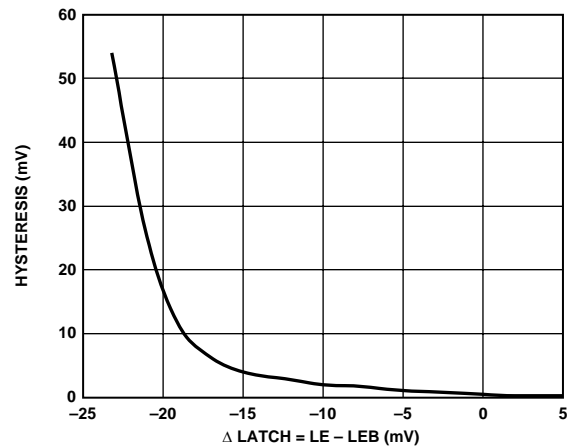


Figure 6. Comparator Hysteresis Transfer Function Using Latch Enable Input

## MINIMUM INPUT SLEW RATE REQUIREMENT

As for all high speed comparators, a minimum slew rate must be met to ensure that the device does not oscillate when the input crosses the threshold. This oscillation is due in part to the high input bandwidth of the comparator and the parasitics of the package. Analog Devices recommends a slew rate of  $5 \text{ V}/\mu\text{s}$  or faster to ensure a clean output transition. If slew rates less than  $5 \text{ V}/\mu\text{s}$  are used, then hysteresis should be added to reduce the oscillation.

## TYPICAL APPLICATION CIRCUITS

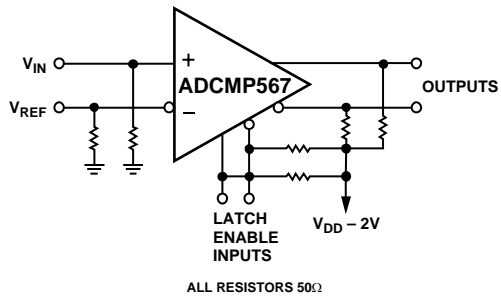


Figure 7. High Speed Sampling Circuits

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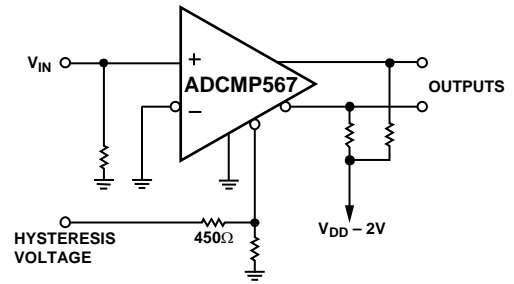


Figure 10. Hysteresis Using Latch Enable Input

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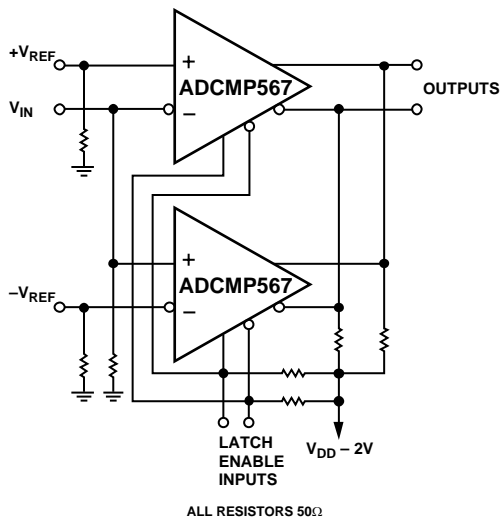


Figure 8. High Speed Window Comparator

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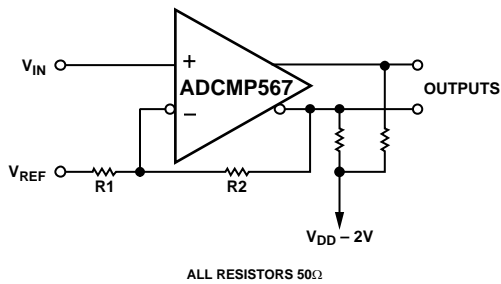


Figure 9. Hysteresis Using Positive Feedback

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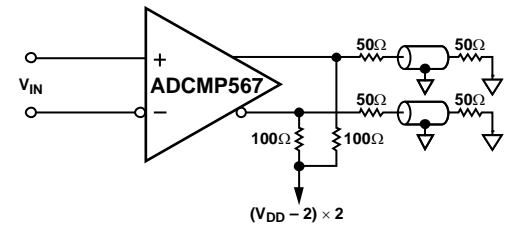


Figure 11. How to Interface a PECL Output to an Instrument with a 50Ω to Ground Input

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## TYPICAL PERFORMANCE CHARACTERISTICS

( $V_{CC} = +5.0\text{ V}$ ,  $V_{EE} = -5.2\text{ V}$ ,  $V_{DD} = +3.3\text{ V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise noted.)

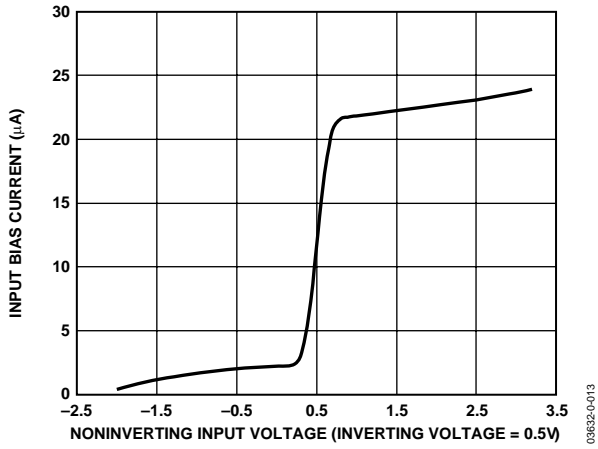


Figure 12. Input Bias Current vs. Input Voltage

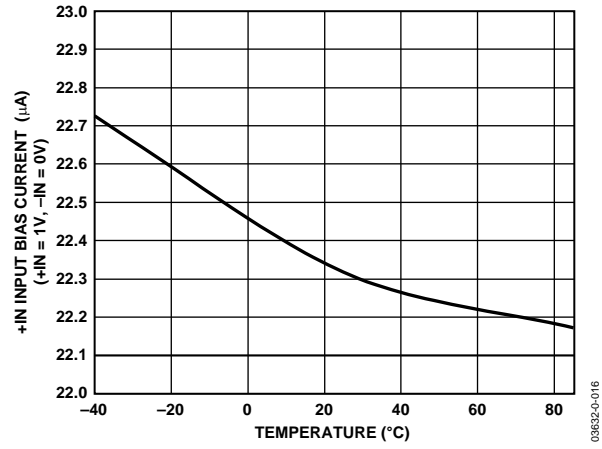


Figure 15. Input Bias Current vs. Temperature

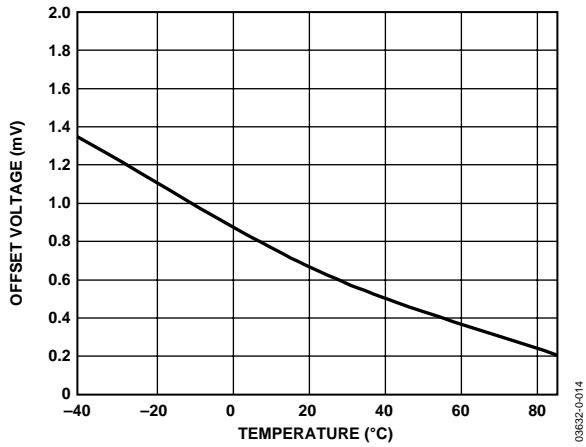


Figure 13. Input Offset Voltage vs. Temperature

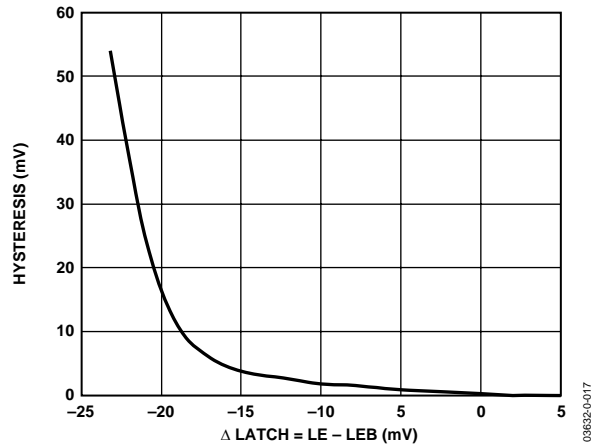


Figure 16. Hysteresis vs.  $\Delta\text{Latch}$

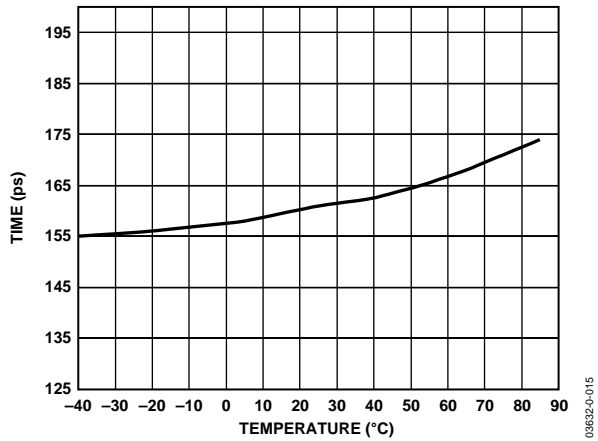


Figure 14. Rise Time vs. Temperature

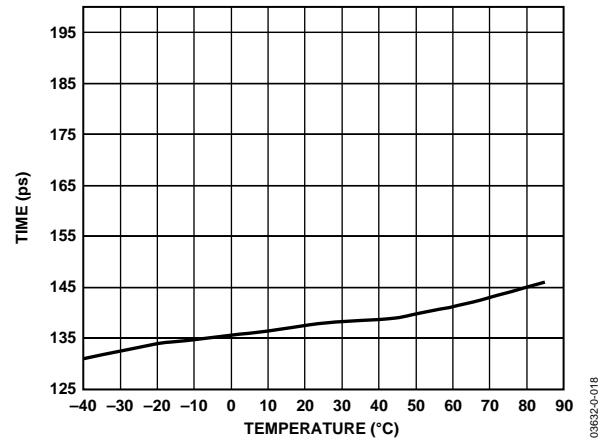


Figure 17. Fall Time vs. Temperature

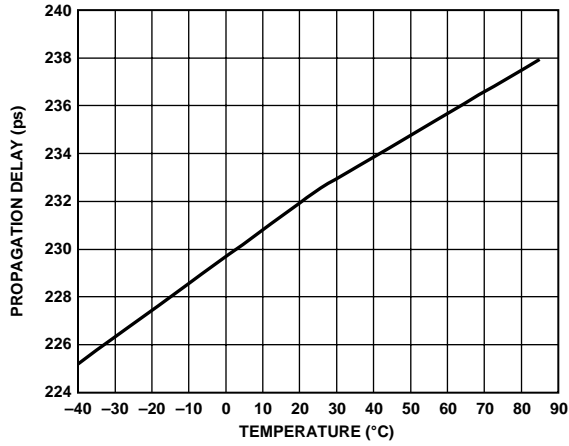


Figure 18. Propagation Delay vs. Temperature

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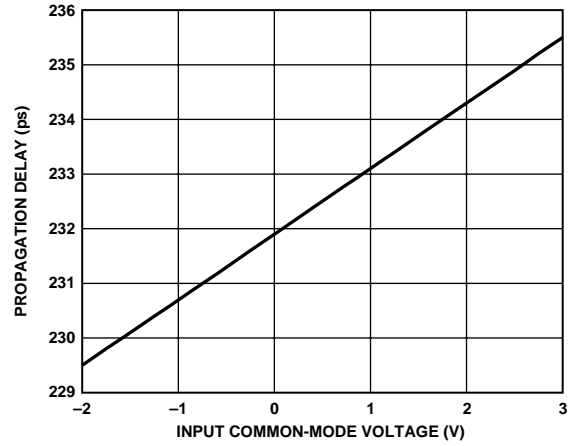


Figure 21. Propagation Delay vs. Common-Mode Voltage

03632-0-022

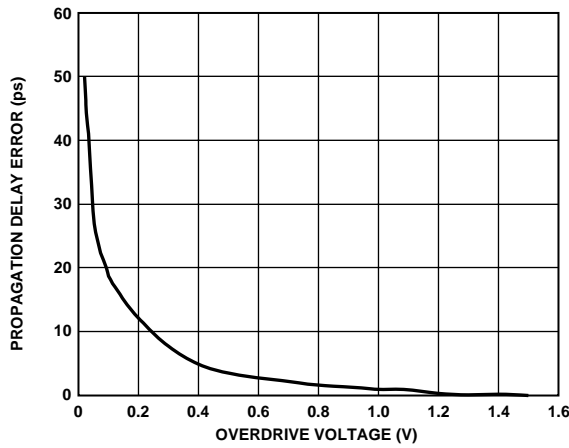


Figure 19. Propagation Delay Error vs. Overdrive Voltage

03632-0-020

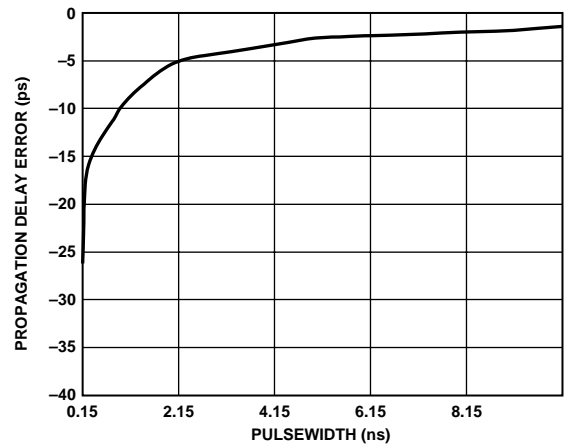


Figure 22. Propagation Delay Error vs. Pulsewidth

03632-0-023

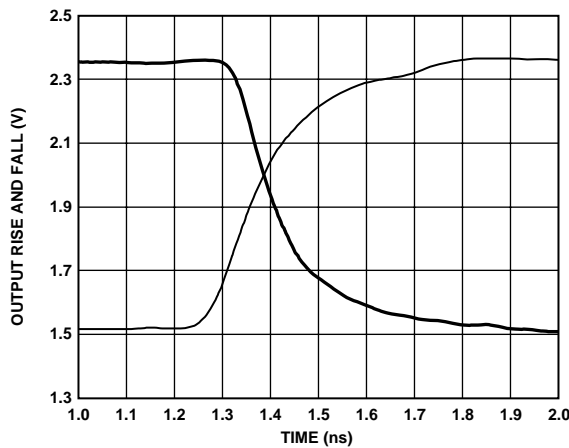
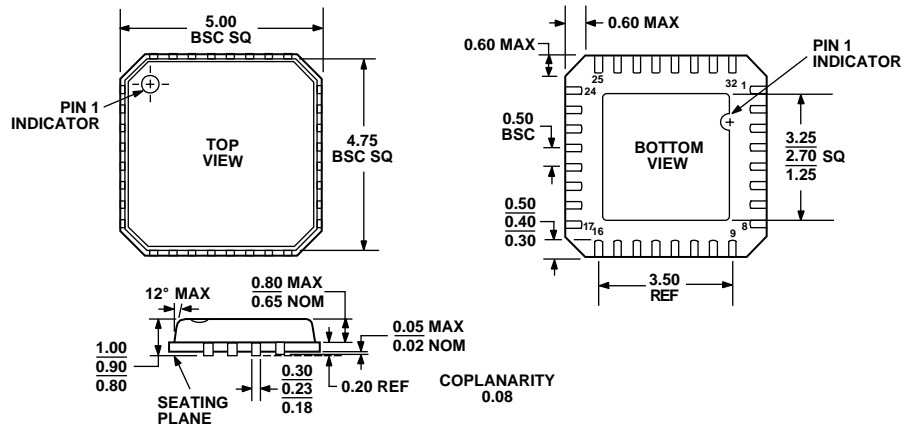


Figure 20. Rise and Fall of Outputs vs. Time

03632-0-021

# ADCMP567

## OUTLINE DIMENSIONS



COMPLIANT TO JEDEC STANDARDS MO-220-VHHD-2  
 Figure 23. 32-Lead Lead Frame Chip Scale Package [LFCSP]  
 (CP-32)  
 Dimensions shown in millimeters

## ORDERING GUIDE

Model	Temperature Range	Package Description	Package Option
ADCMP567BCP	-40°C to +85°C	LFCSP-32	CP-32

**Notes**

**Notes**



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Author: Analog Devices, Inc.  
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