



**THE DATASHEET OF
MAX44260AXT+T**



MAX44259/MAX44260/ MAX44261/MAX44263

1.8V, 15MHz Low-Offset, Low-Power, Rail-to-Rail I/O Op Amps

General Description

The MAX44259/MAX44260/MAX44261/MAX44263 offer a unique combination of high speed, precision, low noise, and low-voltage operation making them ideally suited for a large number of signal processing functions such as filtering and amplification of signals in portable and industrial equipment.

The devices' rail-to-rail input/outputs and low noise guarantee maximum dynamic range in demanding applications such as 12- to 14-bit SAR ADC drivers. Unlike traditional rail-to-rail input structures, input crossover distortion is absent due to an optimized input stage with an ultra-quiet charge pump.

The MAX44260 includes a fast-power-on shutdown mode for further power savings. The MAX44261 offers a unique on-demand calibration pin where the user can invoke self-trimming of the input offset voltage. The MAX44263 is a dual amplifier.

The family of parts operates from a supply range of 1.8V to 5.5V over the -40°C to $+125^{\circ}\text{C}$ temperature range and can operate down to 1.7V over the 0°C to $+70^{\circ}\text{C}$ temperature range. The MAX44259 is offered in a 5-pin SOT23 package. The MAX44260/MAX44261 are available in small, 6-pin SC70 packages. The MAX44260 is also available in a 1mm x 1.5mm thin μDFN (ultra-thin LGA) package. The MAX44263 is available in a small 8-pin SC70 package.

Ordering Information appears at end of data sheet.

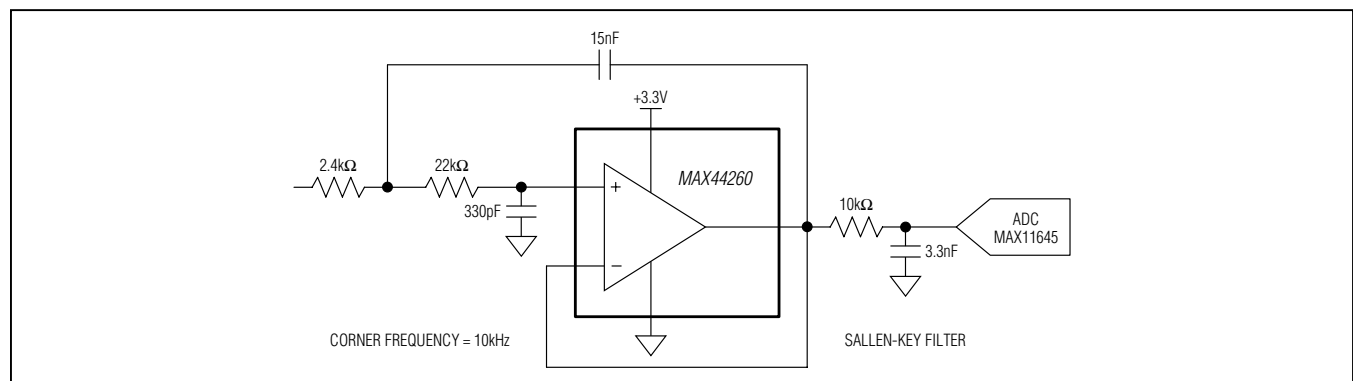
Benefits and Features

- Low Noise for Higher System Accuracy
 - $12.7\text{nV}/\sqrt{\text{Hz}}$ Input Voltage-Noise Density
 - $1.2\text{fA}/\sqrt{\text{Hz}}$ Input Current-Noise Density
 - $50\mu\text{V}$ (max) VOS at $+25^{\circ}\text{C}$
 - 110dB Total Harmonic Distortion
- 15MHz Unity-Gain Bandwidth Enables for High-Bandwidth Applications
- Low Power Extends the Battery Life of Portable Equipment
 - 500fA Low Input Bias Current
 - 750 μA Quiescent Current per Amplifier
 - $< 1\mu\text{A}$ Supply Current in Shutdown
- On-Demand V_{OS} Self-Calibration (MAX44261)
- Saves Board Space
 - Small, 2mm x 2mm SC70 and 1mm x 1.5mm Thin μDFN (MAX44260) and SOT23 (MAX44259) Packages
- Wide Supply Range from 1.8V to 5.5V Simplifies Power-Supply Requirements

Applications

- Notebooks
- 3G/4G Handsets
- Portable Media Players
- Portable Medical Instruments
- Battery-Operated Devices
- Analog-to-Digital Converter Buffers
- Transimpedance Amplifiers

Typical Application Circuit



MAX44259/MAX44260/
MAX44261/MAX44263

1.8V, 15MHz Low-Offset,
Low-Power, Rail-to-Rail I/O Op Amps

Absolute Maximum Ratings

IN+, IN-, OUT	(V _{SS} - 0.3V) to (V _{DD} + 0.3V)	SOT23 (derate 3.9mW/°C above +70°C).....	312.6mW
V _{DD} to V _{SS}	-0.3V to +6V	6-Pin Thin μDFN (Ultra-Thin LGA)	
SHDN, CAL	-0.3V to +6V	(derate 2.1mW/°C above +70°C).....	110.2mW
Output to Short-Circuit Ground Duration	10s	Operating Temperature Range	-40°C to +125°C
Continuous Input Current into Any Pin.....	±20mA	Junction Temperature	+150°C
Continuous Power Dissipation (T _A = +70°C)		Lead Temperature (soldering, 10s)	+300°C
SC70 (derate 3.1mW/°C above +70°C)	245mW	Soldering Temperature (reflow)	+260°C

Stresses beyond those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Package Thermal Characteristics (Note 1)

SC70	Junction-to-Ambient Thermal Resistance (θ _{JA})	326.5°C/W	Thin μDFN (Ultra-Thin LGA)	Junction-to-Ambient Thermal Resistance (θ _{JA})	470°C/W
	Junction-to-Case Thermal Resistance (θ _{JC})	115°C/W			
SOT23	Junction-to-Ambient Thermal Resistance (θ _{JA})	255.9°C/W			
	Junction-to-Case Thermal Resistance (θ _{JC})	81°C/W			

Note 1: Package thermal resistances were obtained using the method described in JEDEC specification JESD51-7, using a four-layer board. For detailed information on package thermal considerations, refer to www.maximintegrated.com/thermal-tutorial.

Electrical Characteristics

(V_{DD} = 3.3V, V_{SS} = 0V, V_{IN+} = V_{IN-} = V_{DD}/2, R_L = 10kΩ to V_{DD}/2, V_{CAL} = V_{SHDN} = V_{DD}, T_A = -40°C to +125°C. Typical values are at T_A = +25°C, unless otherwise noted.) (Note 2)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNITS	
DC CHARACTERISTICS								
Input Voltage Range	V _{IN+} V _{IN-}	Guaranteed by CMRR test		-0.1		V _{DD} + 0.1	V	
Input Offset Voltage (Note 3)	V _{OS}	T _A = +25°C			10	50	μV	
		T _A = -40°C to +125°C after calibration				100		
		T _A = -40°C to +125°C	MAX44260/MAX44261			500		
			MAX44259/MAX44263			800		
Input Offset Voltage Drift (Note 3)	V _{OS} - TC	MAX44260/MAX44261			0.8	5	μV/°C	
		MAX44259/MAX44263			1	8		
Input Bias Current (Note 3)	I _B	T _A = +25°C	MAX44259/ MAX44260/MAX44261		0.01	0.5	pA	
			MAX44263			0.01		0.5
		T _A = -40°C to +85°C						10
		T _A = -40°C to +125°C	MAX44259/ MAX44260/MAX44261					100
MAX44263					160			
Input Capacitance	C _{IN}				0.4		pF	
Common-Mode Rejection Ratio	CMRR	V _{CM} = -0.1V to (V _{DD} + 0.1V)		75	90		dB	
Input Resistance	R _{IN}	Common mode	V _{CM} = -0.1V to (V _{DD} + 0.1V)		10 ¹¹		Ω	
		Differential mode			10 ¹²			

Electrical Characteristics (continued)

($V_{DD} = 3.3V$, $V_{SS} = 0V$, $V_{IN+} = V_{IN-} = V_{DD}/2$, $R_L = 10k\Omega$ to $V_{DD}/2$, $V_{CAL} = V_{SHDN} = V_{DD}$, $T_A = -40^\circ C$ to $+125^\circ C$. Typical values are at $T_A = +25^\circ C$, unless otherwise noted.) (Note 2)

PARAMETER	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNITS
Open-Loop Gain	AOL	$0.4V \leq V_{OUT} \leq V_{DD} - 0.4V$, $R_{OUT} = 10k\Omega$	MAX44259/ MAX44260/MAX44261	100	115		dB
			MAX44263	97	115		
		$0.4V \leq V_{OUT} \leq V_{DD} - 0.4V$, $R_{OUT} = 600\Omega$	MAX44259/ MAX44260/MAX44261	91	100		
			MAX44263	86	100		
		$0.4V \leq V_{OUT} \leq V_{DD} - 0.4V$, $R_{OUT} = 32\Omega$			80		
Output Short-Circuit Current	ISC	To V_{DD} or V_{SS}		50			mA
Output Voltage Swing	$V_{OL} - V_{SS}$	$R_{OUT} = 10k\Omega$				20	mV
		$R_{OUT} = 600\Omega$				50	
		$R_{OUT} = 32\Omega$				400	
	$V_{DD} - V_{OH}$	$R_{OUT} = 10k\Omega$	MAX44259/ MAX44260/MAX44261			10	
			MAX44263			10	
		$R_{OUT} = 600\Omega$	MAX44259/ MAX44260/MAX44261			40	
		$R_{OUT} = 32\Omega$			400	800	
AC CHARACTERISTICS							
Input Voltage-Noise Density	e_n	$f = 10kHz$		12.7			nV/\sqrt{Hz}
Input Current-Noise Density	i_n	$f = 10kHz$		1.2			fA/\sqrt{Hz}
Gain-Bandwidth Product	GBWP			15			MHz
Slew Rate	SR			7			$V/\mu s$
Settling Time		$V_{OUT} = 2V_{P-P}$, $V_{DD} = 3.3V$, $A_v = 1V/V$, $C_L = 30pF$ (load), settle to 0.01%		1.7			μs
Capacitive Loading	C_{LOAD}	No sustained oscillation		300			pF
Total Harmonic Distortion	THD	$f = 10kHz$, $V_O = 2V_{P-P}$, $A_v = 1$, $R_{OUT} = 10k\Omega$		-110			dB
Output Transient Recovery Time		$\Delta V_{OUT} = 0.2V$, $V_{DD} = 3.3V$, $A_v = 1V/V$; $R_S = 20\Omega$, $C_L = 1nF$ (load)		1			μs
POWER-SUPPLY CHARACTERISTICS							
Power-Supply Range	V_{DD}	Guaranteed by PSRR		1.8	5.5		V
		$T_A = 0^\circ C$ to $+70^\circ C$		1.7	5.5		
Power-Supply Rejection Ratio	PSRR	$V_{CM} = V_{DD}/2$	MAX44259/MAX44260/ MAX44261	82	95		dB
			MAX44263	76	95		
Quiescent Current	I_{DD}	MAX44259/MAX44260/MAX44261		750	1200		μA
		MAX44263 (per amplifier)		650	1100		
Shutdown Supply Current	I_{SHDN}	(Note 4)		1			μA

Electrical Characteristics (continued)

($V_{DD} = 3.3V$, $V_{SS} = 0V$, $V_{IN+} = V_{IN-} = V_{DD}/2$, $R_L = 10k\Omega$ to $V_{DD}/2$, $V_{CAL} = V_{SHDN} = V_{DD}$, $T_A = -40^\circ C$ to $+125^\circ C$. Typical values are at $T_A = +25^\circ C$, unless otherwise noted.) (Note 2)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Shutdown Input Low	V_{IL}	(Note 4)			0.5	V
Shutdown Input High	V_{IH}	(Note 4)	1.3			V
Output Leakage Current in Shutdown	I_{SHDN}	(Note 4)		100		pA
Shutdown Input Bias Current	I_{IL}/I_{IH}	MAX44260			1	μA
		MAX44261			0.1	
Shutdown Turn-On Time (Note 4)	t_{SHDN}	$T_A = +25^\circ C$ (Note 3)		14.4	18.9	μs
		$T_A = -40^\circ C$ to $+125^\circ C$ (Note 3)			26.7	
Turn-On Time	t_{ON}	$T_A = +25^\circ C$ (Note 3)		9.7	15.2	ms
		$T_A = -40^\circ C$ to $+125^\circ C$ (Note 3)			18.4	
CAL Turn-On Time (MAX44261 Only)	T_{CAL}	$T_A = +25^\circ C$ (Note 3)		10		ms

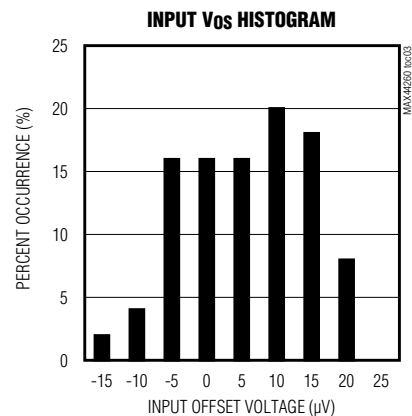
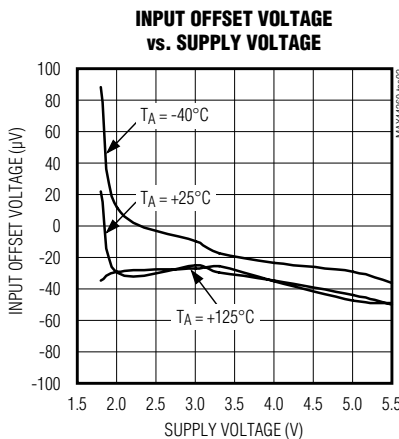
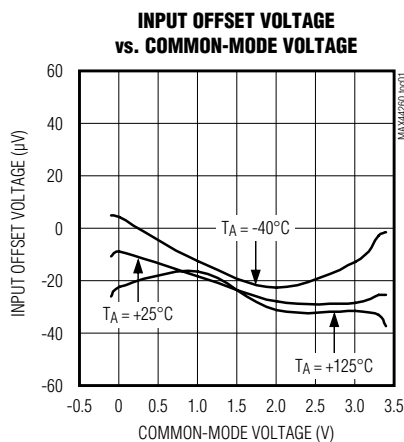
Note 2: All devices are 100% production tested at $T_A = +25^\circ C$. Temperature limits are guaranteed by design.

Note 3: Guaranteed by design.

Note 4: MAX44259/MAX44260 only.

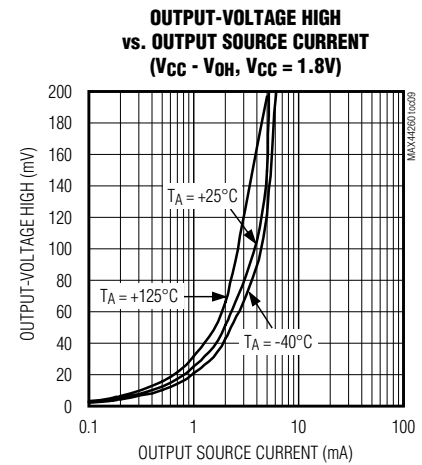
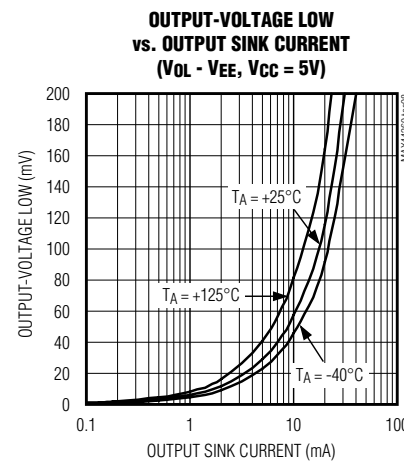
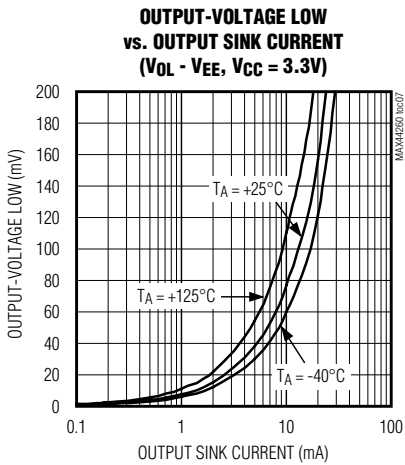
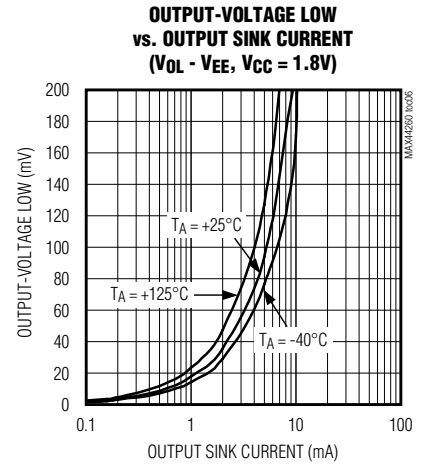
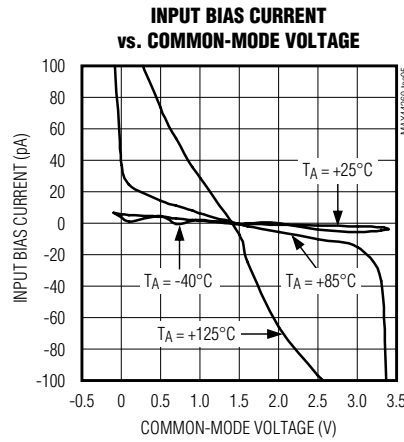
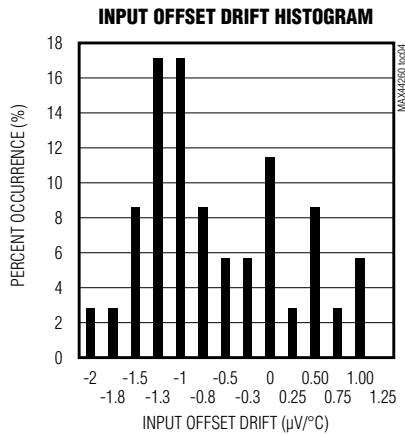
Typical Operating Characteristics

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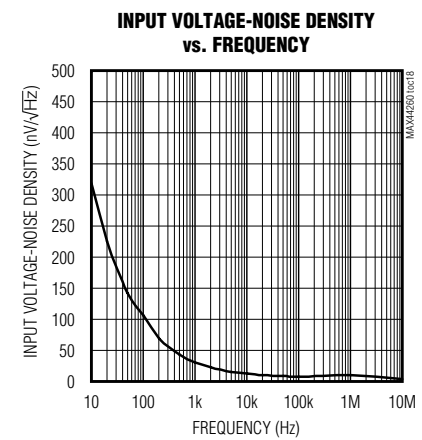
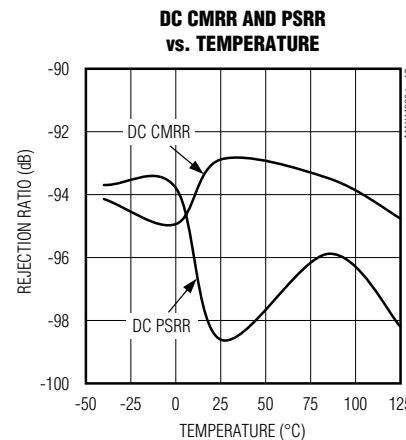
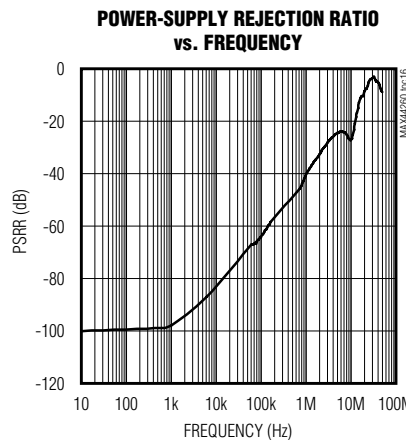
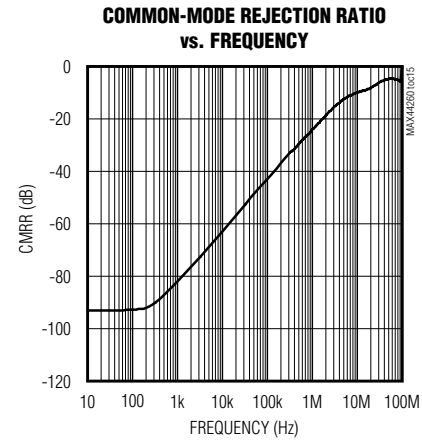
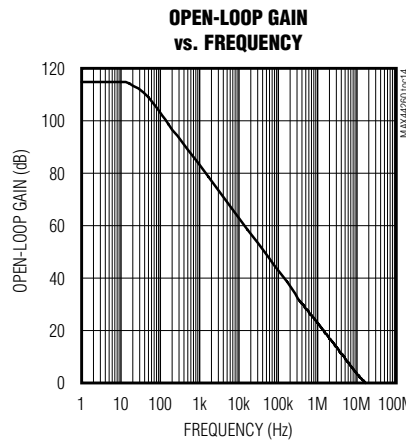
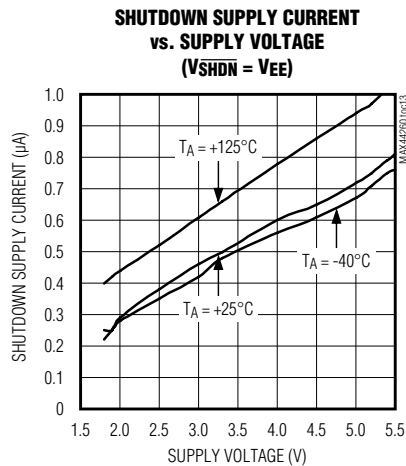
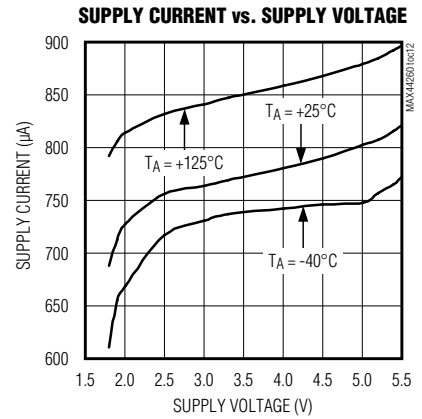
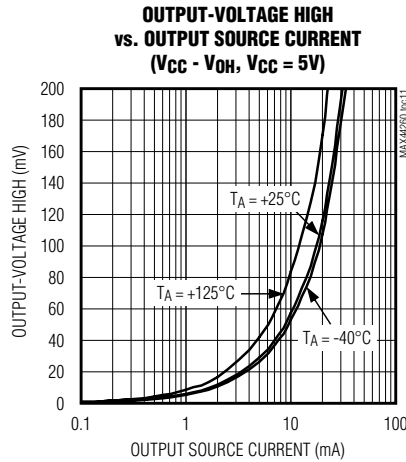
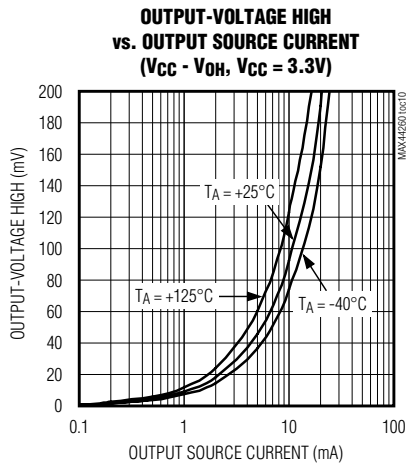
Typical Operating Characteristics

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Typical Operating Characteristics

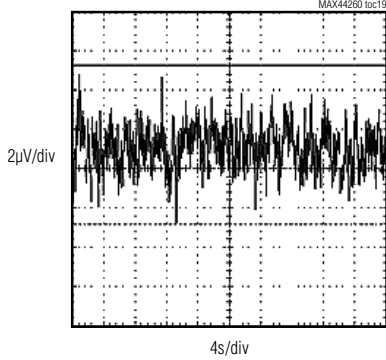
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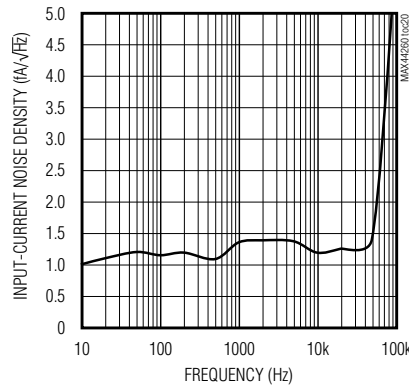
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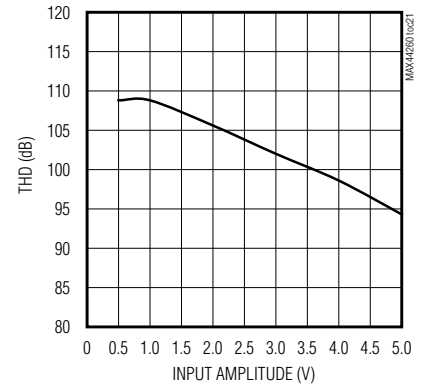
0.1Hz TO 10Hz OUTPUT-VOLTAGE NOISE



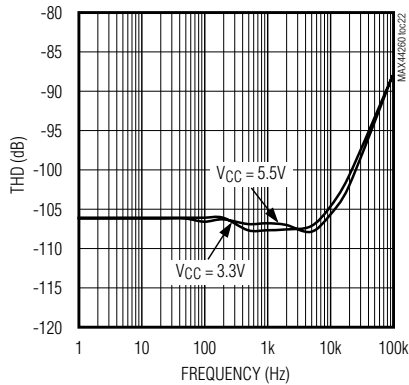
INPUT CURRENT-NOISE DENSITY vs. FREQUENCY



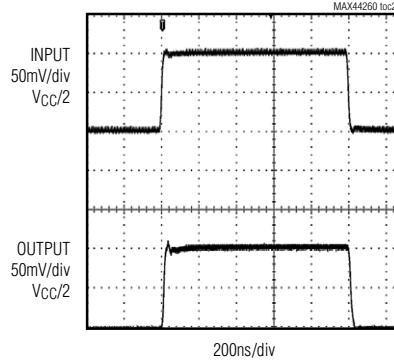
TOTAL HARMONIC DISTORTION vs. INPUT AMPLITUDE
($f = 10kHz$, $V_{CC} = 5.5V$, $A_V = 1V/V$)



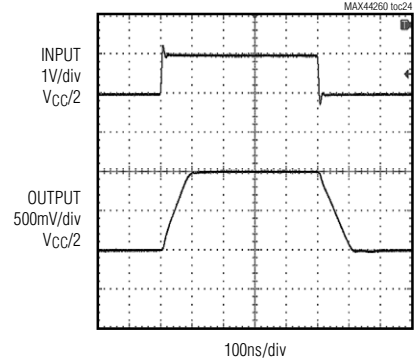
TOTAL HARMONIC DISTORTION vs. FREQUENCY ($V_{IN} = 2V_{P-P}$)



SMALL-SIGNAL TRANSIENT RESPONSE

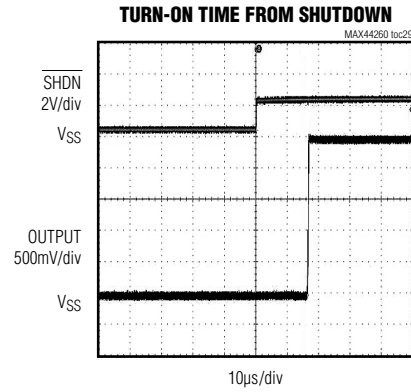
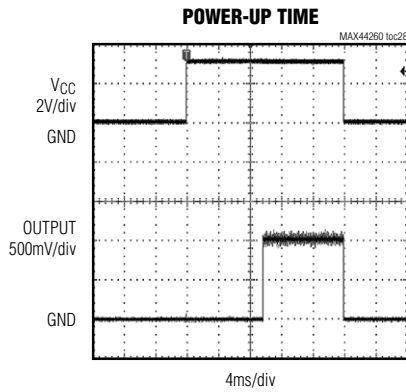
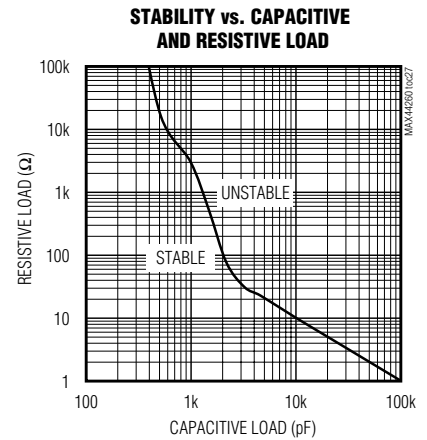
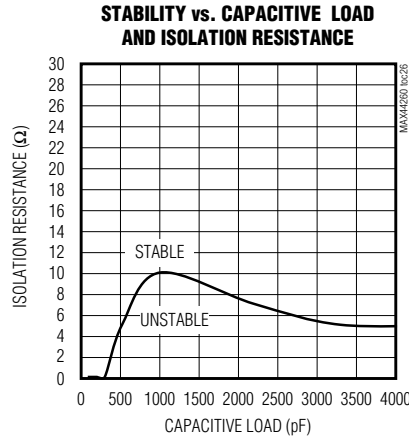
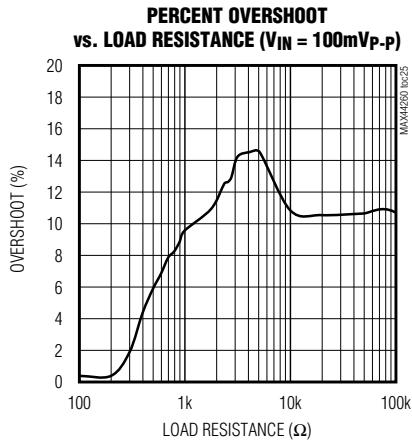


LARGE-SIGNAL TRANSIENT RESPONSE

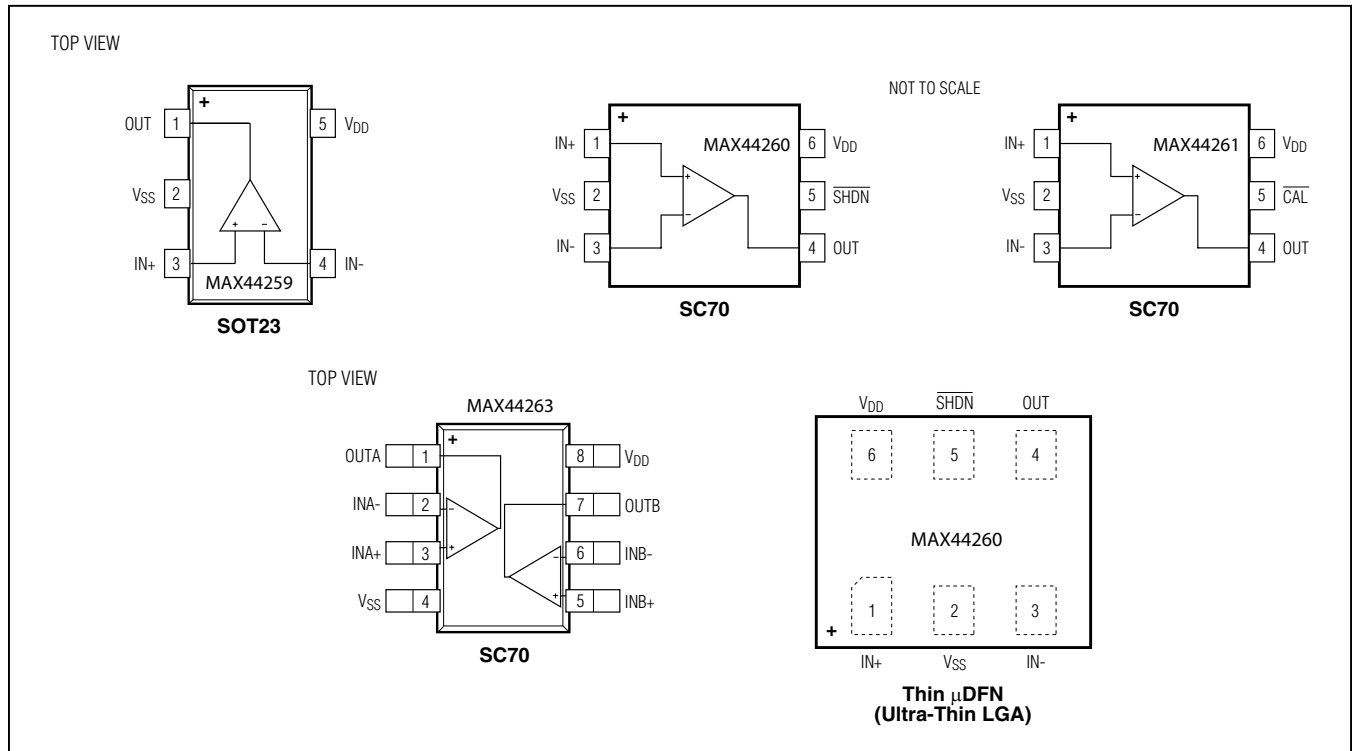


Typical Operating Characteristics

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Pin Configurations



Pin Description

PIN				NAME	FUNCTION
MAX44259	MAX44260	MAX44261	MAX44263		
3	1	1	—	IN+	Positive Input
2	2	2	4	VSS	Negative Power Supply. Bypass with a 0.1 μ F capacitor to ground.
4	3	3	—	IN-	Negative Input
1	4	4	—	OUT	Output
—	—	5	—	$\overline{\text{CAL}}$	Active-Low Calibrate Input
—	5	—	—	$\overline{\text{SHDN}}$	Active-Low Shutdown
5	6	6	8	VDD	Positive Power Supply. Bypass with a 0.1 μ F capacitor to ground.
—	—	—	1	OUTA	Channel A Output
—	—	—	2	INA-	Channel A Negative Input
—	—	—	3	INA+	Channel A Positive Input
—	—	—	5	INB+	Channel B Positive Input
—	—	—	6	INB-	Channel B Negative Input
—	—	—	7	OUTB	Channel B Output

Detailed Description

The MAX44259/MAX44260/MAX44261/MAX44263 are high-speed low-power op amps ideal for signal processing applications due to the device's high precision and low-noise CMOS inputs. The devices self-calibrate on power-up to eliminate effects of temperature and power-supply variation.

The MAX44260 also features a low-power shutdown mode that greatly reduces quiescent current while the device is not operational and recovers in 30 μ s.

The MAX44261 features a user-selectable self-calibration input that shuts down the device and allows it to be recalibrated at any time. The calibration routine takes 10ms.

Crossover Distortion

These op amps feature a low-noise integrated charge pump that creates an internal voltage rail 1V above V_{DD} , which is used to power the input differential pair of PMOS transistors as shown in [Figure 1](#). Such a unique architecture eliminates crossover distortion common in traditional CMOS input architecture ([Figure 2](#)), especially when used in a noninverting configuration, such as for Sallen-Key filters.

The charge pump's operating frequency lies well above the unity-gain frequency of the amplifier. Thanks to its high-frequency operation and ultra-quiet circuitry, the charge pump generates little noise, does not require external components, and is entirely transparent to the user.

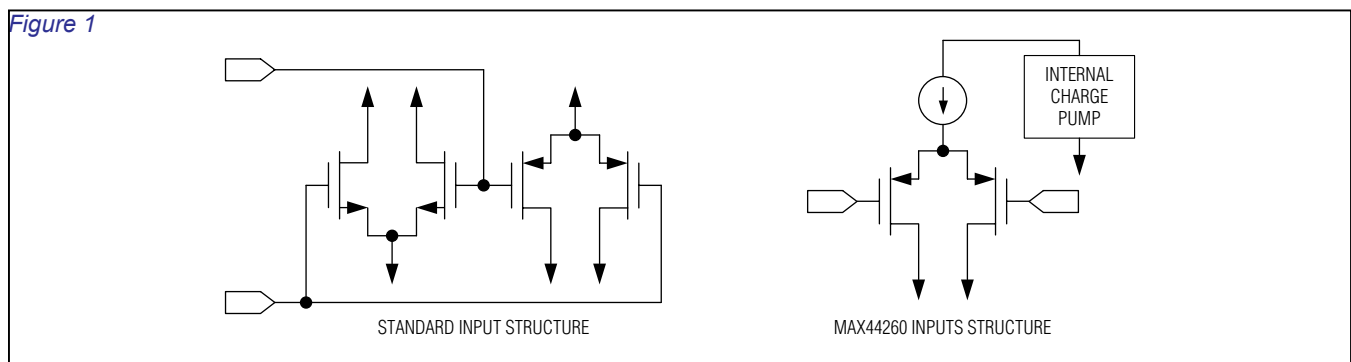


Figure 1. Comparing the Input Structure of the MAX44260 to Standard Op-Amp Inputs

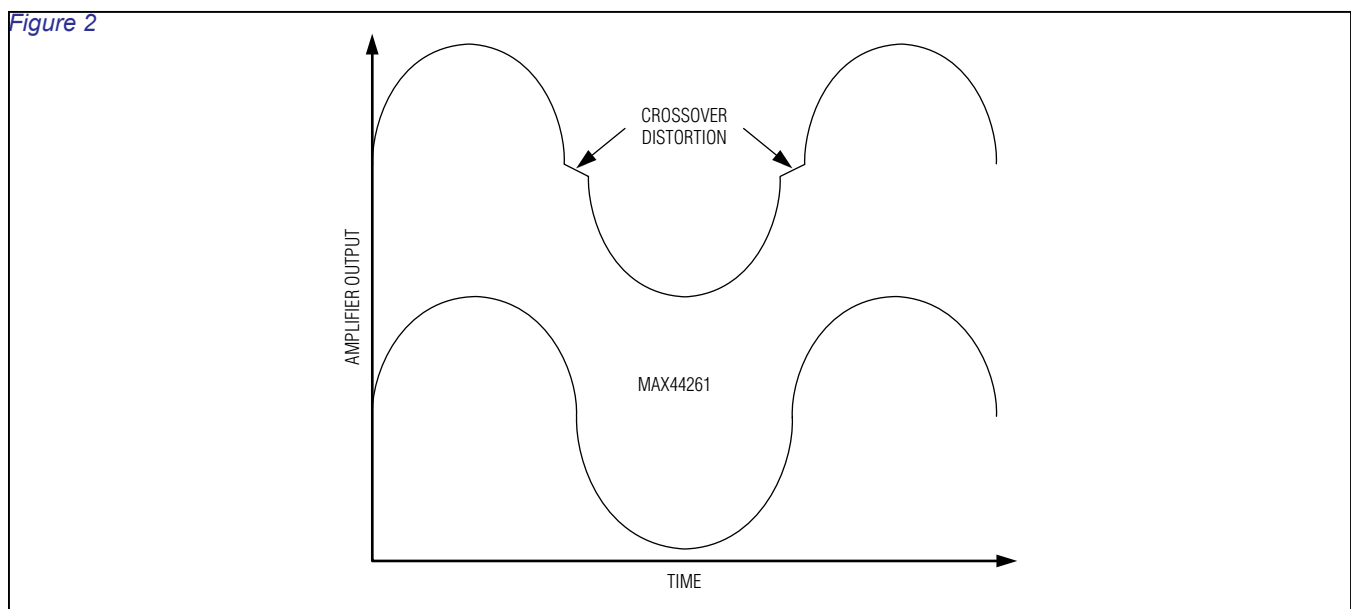


Figure 2. Crossover Distortion of Typical Amplifiers

Applications Information

Power-Up Autotrim

The ICs feature an automatic trim that self-calibrates the V_{OS} of these devices to less than $50\mu V$ of input offset voltage on power-up. This self-calibration feature allows the device to eliminate input offset voltage effects due to power supply and operating temperature variation simply by cycling its power. The autotrim sequence takes approximately 10ms to complete and is triggered by an internal power-on-reset (POR) circuitry. During this time, the inputs and outputs are put into high impedance and left unconnected. The MAX44261 can also be forced into a self-calibration cycle by pulling the CAL input low for $1\mu s$. This input also puts the part into shutdown mode.

Shutdown Operation

The MAX44260 features an active-low shutdown mode that puts both inputs and outputs into high impedance and substantially lowers the quiescent current to less than $1\mu A$. Putting the output into high impedance allows multiple outputs to be multiplexed onto a single output line without the additional external buffers. The device does not self-calibrate when exiting shutdown mode

and retains its power-up trim settings. Figure 3 shows that the device also recovers from shutdown in under $30\mu s$.

The MAX44261 features a recalibrate input that acts the same as the shutdown mode of the MAX44260. However, when the input is pulled low, the device goes through a self-calibration sequence again (Figure 3).

The shutdown logic levels of the devices are independent of supply, allowing the shutdown feature of the device to operate off of a 1.8V or 3.3V microcontroller, regardless of supply voltage.

Rail-to-Rail Input/Output

The input voltage range of the ICs extends $100mV$ above V_{DD} and below V_{SS} . The wide input common-mode voltage range allows the op amp to be used as a buffer and as a differential amplifier in a wide-variety of signal processing applications. Output voltage high/low is designed to be only $50mV$ above V_{SS} and below V_{DD} allowing maximum dynamic range in single-supply applications. The high output current and capacitance drive capability of the devices make them ideal as an ADC driver and a line driver.

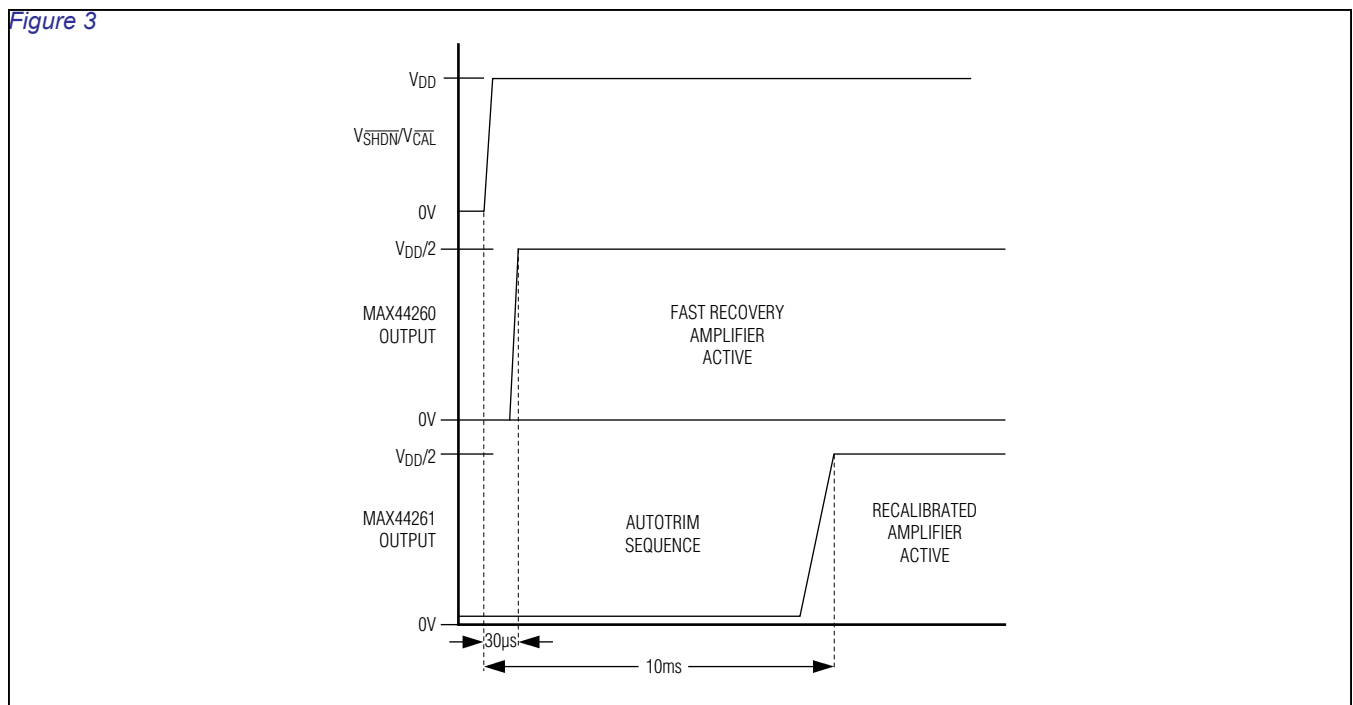


Figure 3. CAL vs. $SHDN$ Input Operation

MAX44259/MAX44260/ MAX44261/MAX44263

1.8V, 15MHz Low-Offset,
Low-Power, Rail-to-Rail I/O Op Amps

Input Bias Current

The ICs feature a high-impedance CMOS input stage and a specialized ESD structure that allows low-input bias current operation at low-input, common-mode voltages. Low-input bias current is useful when interfacing with high-ohmic sensors. It is also beneficial for designing transimpedance amplifiers for photodiode sensors. This makes these devices ideal for ground-referenced medical and industrial sensor applications.

Active Filters

The MAX44259/MAX44260/MAX44261/MAX44263 are ideal for a wide variety of active filter circuits that make use of their wide bandwidth, rail-to-rail input/output stages and high-impedance CMOS inputs. The [Typical Application Circuit](#) shows an example Sallen-Key active filter circuit with a corner frequency of 10kHz. At low frequencies, the amplifier behaves like a simple low-distortion noninverting buffer, while its high bandwidth gives excellent stopband attenuation above its corner frequency. See the [Typical Application Circuit](#).

Chip Information

PROCESS: BiCMOS

Driver for Interfacing with the MAX11645 ADC

The ICs' tiny size and low noise makes them a good fit for driving 12- to 16-bit resolution ADCs in space-constrained applications. The [Typical Application Circuit](#) shows the MAX44260 amplifier output connected to a lowpass filter driving the MAX11645 ADC. The MAX11645 is part of a family of 3V and 5V, 12-bit and 10-bit, 2-channel ADCs.

The MAX11645 offers sample rates up to 94ksps and measures two single-ended inputs or one differential input. These ADCs dissipate 670 μ A at the maximum sampling rate, but just 6 μ A at 1ksps and 0.5 μ A in shutdown. Offered in the ultra-tiny, 1.9mm x 2.2mm WLP and μ MAX-8 packages, the MAX11645 ADCs are an ideal fit to pair with the MAX44260/MAX44261/MAX44263 amplifiers in portable applications.

Where higher resolution is required, refer to the MAX1069 (14-bit) and MAX1169 (16-bit) ADC families.

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE	TOP MARK
MAX44259AUK+	-40°C to +125°C	5 SOT23	+AMFX
MAX44260AXT+	-40°C to +125°C	6 SC70	+AEB
MAX44260AYT+	-40°C to +125°C	6 Thin μ DFN (Ultra-Thin LGA)	+AY
MAX44261AXT+	-40°C to +125°C	6 SC70	+AEC
MAX44263AXA+	-40°C to +125°C	8 SC70	+AAG

+Denotes a lead(Pb)-free/RoHS-compliant package.

MAX44259/MAX44260/
MAX44261/MAX44263

1.8V, 15MHz Low-Offset,
Low-Power, Rail-to-Rail I/O Op Amps

Package Information

For the latest package outline information and land patterns (footprints), go to www.maximintegrated.com/packages. Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.

PACKAGE TYPE	PACKAGE CODE	OUTLINE NO.	LAND PATTERN NO.
5 SOT23	U5N+4	21-0057	90-0174
6 SC70	X6SN+1	21-0077	90-0189
6 Thin μ DFN (Ultra-Thin LGA)	Y61A1+1	21-0190	90-0233
8 SC70	X8CN+1	21-0460	90-0348

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	6/11	Initial release	—
1	8/11	Added thin μ DFN (ultra-thin LGA) package and updated slew rate and TOC 29	1, 2, 3, 8, 9, 12
2	10/11	Removed future product information from data sheet	12
3	2/12	Revised <i>Electrical Characteristics</i> and the <i>Power-Up Autotrim</i> section	2, 3, 11
4	7/12	Revised <i>Electrical Characteristics</i> and <i>Typical Operating Characteristics</i>	3, 6
5	10/12	Added the MAX44263 and revised the <i>Electrical Characteristics</i> , <i>Pin Description</i> , and <i>Pin Configuration</i>	1–17
6	12/12	Revised <i>Typical Operating Characteristics</i>	7
7	9/14	Added the MAX44259 to data sheet.	1–14
8	12/14	Revised <i>General Description</i> and <i>Benefits and Features</i> section	1
9	3/15	Revised <i>Electrical Characteristics</i>	2
10	8/19	Updated <i>Electrical Characteristics</i>	4

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