



General Description

The MAX8559 dual, low-noise, low-dropout (LDO) linear regulator operates from a 2.5V to 6.5V input voltage and delivers at least 300mA of continuous output current. It offers low output noise and low dropout of only 60mV at 100mA. Typical output noise for this device is 32µV_{RMS}, and PSRR is 70dB at 10kHz. Designed with an internal P-channel MOSFET pass transistor, the MAX8559 maintains a low 115µA supply current per LDO, independent of the load current and dropout voltage. Other features include short-circuit protection and thermal-shutdown protection. The MAX8559 includes two independent logic-controlled shutdown inputs and is capable of operating without a bypass capacitor to further reduce total solution size. The MAX8559 is available in a miniature 8-bump UCSP™ (2mm x 1mm) or 8-pin TDFN (3mm x 3mm) package.

Applications

Cellular and Cordless Phones

PDAs and Palmtop Computers

Notebook Computers

Digital Cameras

PCMCIA Cards

Wireless LAN Cards

Handheld Instruments

Features

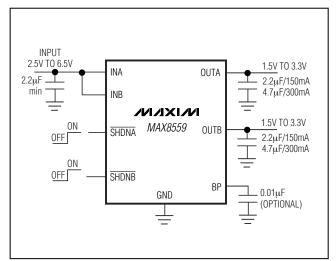
- **♦ Two Low-Dropout-Voltage Regulators**
- ♦ Low 32µV_{RMS} Output Noise
- ♦ 300mA Output Current for Each LDO
- ♦ 70dB PSRR at 10kHz
- ♦ Independent Shutdown Controls
- ♦ Low 60mV Dropout at 100mA Load
- ♦ 115µA Operating Supply Current per LDO
- ♦ 1.5V to 3.3V Factory-Preset Output
- **♦ Small Ceramic Output Capacitors**
- **♦ Output Current Limit**
- ♦ Thermal-Overload and Short-Circuit Protection
- **◆ 1.95W Power-Dissipation Capability (TDFN)**
- ◆ 2mm² Footprint (UCSP)

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX8559EBAxy*-T	-40°C to +85°C	8 UCSP (B8-1)
MAX8559EBAxy*+T	-40°C to +85°C	8 UCSP (B8-1)
MAX8559ETAxy*-T	-40°C to +85°C	8 TDFN-EP**
MAX8559ETAxy*+T	-40°C to +85°C	8 TDFN-EP**

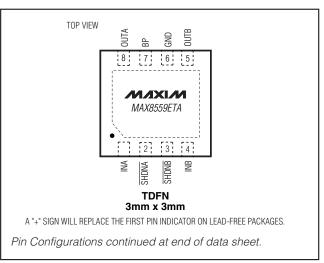
^{*}xy = Output voltage code (see the Output Voltage Selector Guide).

Typical Operating Circuit



UCSP is a trademark of Maxim Integrated Products, Inc. Output Voltage Selector Guide appears at end of data sheet.

Pin Configurations



Maxim Integrated Products 1

^{**}EP = Exposed pad.

⁺Denotes lead-free package.

ABSOLUTE MAXIMUM RATINGS

INA, INB, SHDNA, SHDNB, BP to GND0.3V to +7V	
INA to INB0.3V to +0.3V	
OUTA, OUTB to GND0.3V to (V _{IN} + 0.3V)	
Output Short-Circuit DurationContinuous	
Continuous Power Dissipation ($T_A = +70^{\circ}C$)	
8-Bump UCSP (derate 4.7mW/°C above +70°C)379mW	
8-Pin TDFN (derate 24.4mW/°C above +70°C)1951mW	

Operating Temperature Range	40°C to +85°C
Junction Temperature	+150°C
Storage Temperature Range	65°C to +150°C
8-Pin TDFN Lead Temperature (soldering,	10s)+300°C
8-Bump UCSP Solder Profile	(Note 1)

Note 1: For UCSP solder profile information, please refer to the application note APP_1891 on the Maxim website, www.maxim-ic.com.

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.

ELECTRICAL CHARACTERISTICS

 $(V_{IN} = 3.8V, \overline{SHDNA} = \overline{SHDNB} = IN_{-}, T_{A} = -40^{\circ}C$ to $+85^{\circ}C$, unless otherwise noted. Typical values are at $T_{A} = +25^{\circ}C$.) (Note 1)

PARAMETER	SYMBOL	CON	DITIONS	MIN	TYP	MAX	UNITS
Input Voltage	V _{IN}			2.5		6.5	V
Undervoltage-Lockout Threshold	V _U VLO	V _{IN} rising, hysteresis	s is 40mV (typ)	2.15	2.35	2.45	V
		$T_A = +25^{\circ}C$, $I_{OUTA} =$	= I _{OUTB} = 1mA	-1		+1	
Output Voltage Accuracy		$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$	C , $I_{OUTA} = I_{OUTB} = 1mA$	-2		+2	%
Output Voltage Accuracy		$T_A = -40^{\circ}\text{C to } +85^{\circ}\text{C}$ 0.1mA to 300mA	C, IOUTA or IOUTB =	-3		+3	/0
Maximum Output Current	lout_			300			mA
Output Current Limit	I _{LIM} _			310	550	920	mA
		No load			180	290	
Ground Current	IQ	No load, one LDO sl		115		μΑ	
		IOUTA = IOUTB = 100mA			220		
Dropout Voltage	Vout	I _{OUT} _ = 1mA			0.6		mV
(Note 2)	V _{IN} _	$I_{OUT} = 100mA$			60	120	1110
Line Regulation	ΔV_{LNR}	$V_{IN} = (V_{OUT} + 0.1)$	V) to 6.5V, I_{OUT} = 1mA	-0.15	0	+0.15	%/V
		100Hz to 100kHz, C I _{OUT} = 1mA, C _{BP} =			32		.,
Output Voltage Noise		100Hz to 100kHz, C I _{OUT} = 1mA, C _{BP} =			254		μV _{RMS}
	5055	V _{IN} _ = V _{OUT} _ + 1V, C _{BP} = 0.01µF,	10kHz		70		
Power-Supply Ripple Rejection	PSRR	$C_{OUT} = 2.2 \mu F,$ $I_{OUT} = 50 mA$	100kHz		54		dB
SHUTDOWN							
Chutdown Cumply Current	laurau	SHDN_ = 0V	T _A = +25°C		0.01	1	
Shutdown Supply Current	ISHDN	2UDIN_ = 01	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		0.1		- μΑ
SHDN Input Threshold	VIH	Input high voltage		1.6			V
אטוו אטווע mput mresnoid	VIL	Input low voltage				0.4	l v

ELECTRICAL CHARACTERISTICS (continued)

 $(V_{IN} = 3.8V, \overline{SHDNA} = \overline{SHDNB} = IN_{-}, T_A = -40^{\circ}C$ to $+85^{\circ}C$, unless otherwise noted. Typical values are at $T_A = +25^{\circ}C$.) (Note 1)

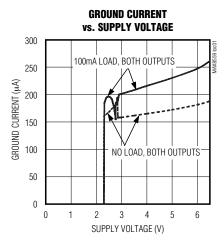
PARAMETER	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNITS
CHDN Input Dies Current	launu	SHDN_ = IN or	$T_A = +25^{\circ}C$		10	100	n ^
SHDN Input Bias Current	ISHDN	GND	$T_A = -40$ °C to $+85$ °C		100		nA
V _{OUT} _ Discharge Resistance in Shutdown		SHDN_ = GND			385		Ω
THERMAL PROTECTION							
Thermal-Shutdown Temperature	T _{SHDN}	T _J rising			+160		°C
Thermal-Shutdown Hysteresis	ΔT_{SHDN}				10	•	°C

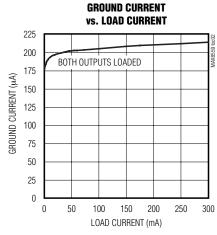
Note 1: All units are 100% production tested at $T_A = +25$ °C. Limits over the operating temperature range are guaranteed by design.

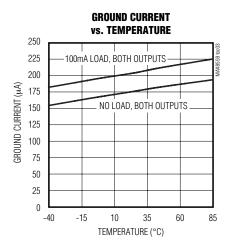
Note 2: The dropout voltage is defined as V_{IN} - V_{OUT} when V_{OUT} is 100mV below the nominal value of V_{OUT}. Specification only applies when V_{OUT} ≥ 2.5V.

_Typical Operating Characteristics

 $(V_{OUTA} = V_{OUTB} = 2.85V, V_{INA} = V_{INB} = 3.8V, C_{OUT} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), unless otherwise noted.)

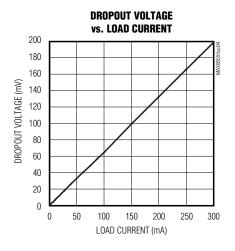


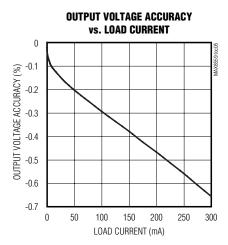


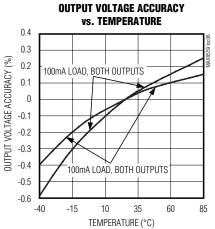


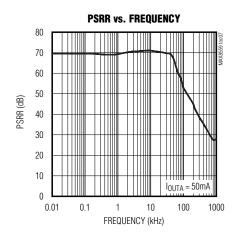
Typical Operating Characteristics (continued)

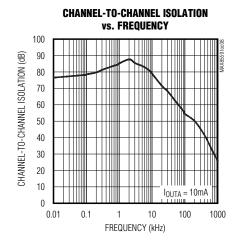
 $(V_{OUTA} = V_{OUTB} = 2.85V, V_{INA} = V_{INB} = 3.8V, C_{OUT} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), unless otherwise noted.)

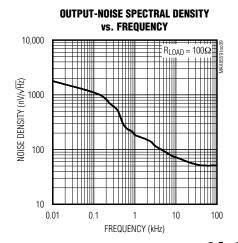






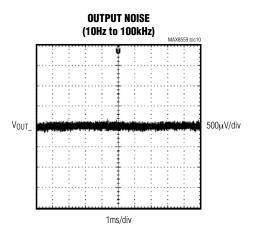


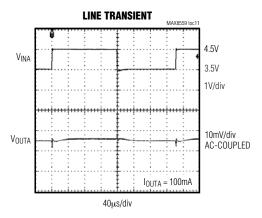


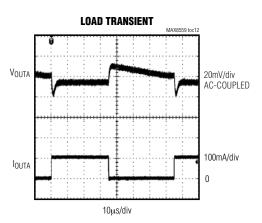


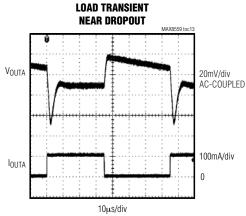
Typical Operating Characteristics (continued)

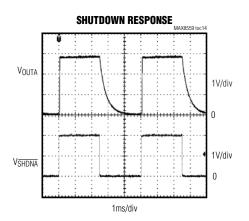
 $(V_{OUTA} = V_{OUTB} = 2.85V, V_{INA} = V_{INB} = 3.8V, C_{OUT} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$ (or $4.7\mu F$ for 300mA), unless otherwise noted.)











Pin Description

PI	N	NAME	FUNCTION
TDFN	UCSP	INAIVIE	FUNCTION
1	A1	INA	LDO A Regulator Input. Connect to INB. Input voltage can range from 2.5V to 6.5V. Bypass INA with a ceramic capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section).
2	A2	SHDNA	Shutdown A Input. A logic-low on SHDNA shuts down regulator A. If SHDNA and SHDNB are both low, both regulators and the internal reference are off and the supply current is reduced to 10nA (typ). If either SHDNA or SHDNB is a logic high, the internal reference is on. Connect SHDNA to INA for always-on operation of regulator A.
3	А3	SHDNB	Shutdown B Input. A logic-low on SHDNB shuts down regulator B. If SHDNA and SHDNB are both low, both regulators and the internal reference are off and the supply current is reduced to 10nA (typ). If either SHDNA or SHDNB is a logic high, the internal reference is on. Connect SHDNB to INB for always-on operation of regulator B.
4	A4	INB	LDO B Regulator Input. Connect to INA. Input voltage can range from 2.5V to 6.5V. Bypass INB with a ceramic capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section).
5	B4	OUTB	Regulator B Output. OUTB can source up to 300mA continuous current. Bypass OUTB with a ceramic capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section). During shutdown, OUTB is internally discharged to GND through a 385Ω resistor.
6	В3	GND	Ground
7	B2	BP	Reference Noise Bypass. Bypass BP with a low-leakage 0.01µF ceramic capacitor for reduced noise at both outputs.
8	B1	OUTA	Regulator A Output. OUTA can source up to 300mA continuous current. Bypass OUTA with a ceramic capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section). During shutdown, OUTB is internally discharged to GND through a 385Ω resistor.
EP	_	Exposed Paddle	Connect to ground plane. EP also functions as a heatsink. Solder to the circuit-board ground plane to maximize thermal dissipation.

Detailed Description

The MAX8559 is a dual, low-noise, low-dropout, low-quiescent-current linear regulator designed primarily for battery-powered applications. The regulators are available with preset 1.5V to 3.3V output voltages. These outputs can supply loads up to 300mA with a 4.7µF output capacitor, or up to 150mA with a 2.2µF output capacitor. As illustrated in the *Functional Diagram*, the MAX8559 consists of a 1.25V reference, error amplifiers, P-channel pass transistors, internal feedback voltage-dividers, and autodischarge circuitry.

Feedback Control Loop

The 1.25V bandgap reference is connected to the error amplifier's inverting input. The error amplifier compares this reference with the feedback voltage and amplifies the difference. If the feedback voltage is lower than the reference voltage, the pass-transistor gate is pulled

lower, allowing more current to pass to the output and increasing the output voltage. If the feedback voltage is too high, the pass-transistor gate is pulled up, allowing less current to pass to the output. The output voltage is fed back through an internal resistor voltage-divider connected to OUT_.

Internal P-Channel Pass Transistor

The MAX8559 features two 0.6Ω P-channel MOSFET pass transistors. A P-channel MOSFET provides several advantages over similar designs using PNP pass transistors, including longer battery life. It requires no base drive, reducing quiescent current considerably. PNP-based regulators waste considerable current in dropout when the pass transistor saturates, and they also use high base-drive currents under large loads. The MAX8559 does not suffer from these problems, and with both outputs on it only consumes 180 μ A of

quiescent current at no load and 220µA with 100mA load current on both outputs (see the *Typical Operating Characteristics*). A PNP-based regulator has a high dropout voltage that is independent of the load. A P-channel MOSFET's dropout voltage is proportional to load current, providing for low dropout voltage at heavy loads and extremely low dropout at lighter loads.

Current Limit

The MAX8559 contains two independent current limiters, one for each regulator output, monitoring and controlling the pass transistor's gate voltage and limiting the output current to 310mA (min). The outputs can be shorted to ground continuously without damaging the part.

Low-Noise Operation

An external $0.01\mu\text{F}$ bypass capacitor at BP in conjunction with an internal resistor creates a lowpass filter. The MAX8559 exhibits less than $32\mu\text{V}_{RMS}$ of output voltage noise with $C_{BP}=0.01\mu\text{F}$ and $C_{OUT}=10\mu\text{F}$. The Typical Operating Characteristics show a graph of Output-Noise Spectral Density with these values. If output noise is not critical, the BP capacitor can be removed to reduce total solution size and cost.

Shutdown

The MAX8559 has independent shutdown control inputs (SHDNA and SHDNB). Drive SHDNA low to shut down OUTA. Drive SHNDB low to shut down OUTB. Drive both SHDNA and SHDNB low to shut down the entire chip, reducing supply current to 0.01 μ A. Connect SHDNA or SHDNB to a logic high or IN_ for always-on operation of the corresponding LDO. Each LDO output is internally discharged to ground through a 385 Ω resistor in shutdown mode.

Thermal-Overload Protection

Thermal-overload protection limits total power dissipation in the MAX8559. Each regulator has its own independent thermal detector. When one of the regulators junction temperature exceeds $T_J = +160^{\circ}\text{C}$, that regulator's pass transistor is turned off allowing the IC to cool. The thermal sensor turns the pass transistor on again after the IC's junction temperature cools by 10°C. This results in a pulsed output during continuous thermal-overload conditions.

Operating Region and Power Dissipation

The MAX8559 maximum power dissipation depends on the thermal resistance of the case and the circuit board, the temperature difference between the die junction and ambient air, and the rate of airflow. The power dissipation across the device is $P = I_{OUT} \times (V_{IN} - V_{OUT})$.

The maximum power dissipation allowed is:

 $P_{MAX} = (T_J - T_A) / (R_{\theta JB} + R_{\theta BA})$

where T_J - T_A is the temperature difference between the MAX8559 die junction and the surrounding air, R_{θ JB} (R_{θ JC}) is the thermal resistance of the package, and R_{θ BA} is the thermal resistance through the printed circuit board, copper traces, and other materials to the surrounding air.

The exposed paddle of the TDFN package performs the function of channeling heat away. Connect the exposed paddle to the board ground plane.

_Applications Information

Capacitor Selection and Regulator Stability

For load currents up to 150mA, use a single 2.2µF capacitor to bypass both inputs of the MAX8559 and a 2.2µF capacitor to bypass each output. Larger input-capacitor values and lower ESRs provide better supply-noise rejection and line-transient response. To reduce output noise and improve load-transient voltage dips, use larger output capacitors up to 10µF. For stable operation over the full temperature range with load currents up to 300mA, input and output capacitors should be a minimum of 4.7µF.

Note that some ceramic dielectrics exhibit large capacitance and ESR variation with temperature. With dielectrics such as Z5U and Y5V, it may be necessary to use 4.7µF or more for up to 150mA load current to ensure stability at temperatures below -10°C. With X7R or X5R dielectrics, 2.2µF is sufficient at all operating temperatures. These regulators are optimized for ceramic capacitors. Tantalum capacitors are not recommended.

Use a 0.01µF bypass capacitor at BP for low-output voltage noise. Increasing the capacitance slightly decreases the output noise, but increases the startup time.

PSRR and Operation from Sources Other than Batteries

The MAX8559 is designed to deliver low-dropout voltages and low quiescent currents in battery-powered systems. Power-supply rejection ratio is 70dB at 10kHz (see Power-Supply Rejection Ratio vs. Frequency in the *Typical Operating Characteristics*). When operating from sources other than batteries, improved supply-noise rejection and transient response is achieved by increasing the values of the input and output bypass capacitors and through passive RC or CRC filtering techniques.

Load-Transient Considerations

The MAX8559 load-transient response graphs (see the *Typical Operating Characteristics*) show two components of the output response: a DC shift in the output voltage due to the different load currents and the transient response. Typical overshoot for step changes in the load current from 10µA to 100mA is 15mV. Increase the output capacitor's value and decrease its ESR to attenuate transient spikes.

Dropout Voltage

A regulator's minimum input-output voltage differential (or dropout voltage) determines the lowest usable supply voltage. In battery-powered systems, this determines the useful end-of-life battery voltage. Because the MAX8559 uses an internal P-channel MOSFET pass transistor, its dropout voltage is a function of the drainto-source on-resistance (RDS(ON)) multiplied by the load current (see the *Typical Operating Characteristics*).

Calculating the Maximum Output Power in UCSP

The maximum output power of the MAX8559 is limited by the maximum power dissipation of the package. By calculating the power dissipation of the package as a function of the input voltage, output voltages, and output currents, the maximum input voltage can be obtained. The maximum power dissipation should not exceed the package's maximum power rating.

P = (VIN(MAX) - VOUTA) X IOUTA + (VIN(MAX) - VOUTB) X IOUTB where:

V_{IN(MAX)} = maximum input voltage

PMAX = maximum power dissipation of the package (379mW for the UCSP and 1951mW for the TDFN)

VOUTA = output voltage of OUTA

Voutb = output voltage of OUTB

IOUTA = maximum output current of OUTA

IOUTB = maximum output current of OUTB

P should be less than PMAX. If P is greater than PMAX, consider the TDFN.

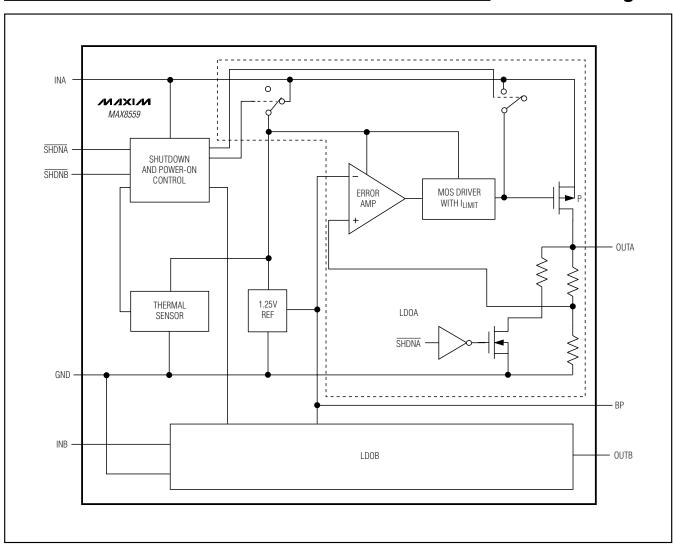
Layout Guidelines

Due to the low output noise and tight output voltage accuracy required by most applications, careful PC board layout is required. An evaluation kit (MAX8559EVKIT) is available to speed design.

Follow these guidelines for good PC board layout:

- Keep the input and output paths short and wide if possible, especially at the ground terminals.
- Use thick copper PC boards (2oz vs. 1oz) to enhance thermal capabilities.
- Place output, input, and bypass capacitors as close as possible to the IC.
- Ensure traces to BP and the BP capacitor are away from noisy sources to ensure low output voltage noise.

Functional Diagram

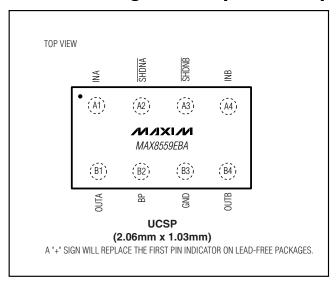


Output Voltage Selector Guide

PART	V _{OUTA} (x)	V _О ТВ (у)	TOP MARK
MAX8559EBA8A	1.50	3.30	AAE
MAX8559EBA2G	1.80	3.00	AAF
MAX8559EBA11	1.85	1.85	AAK
MAX8559EBAP2	2.50	1.80	AAG
MAX8559EBAK2	2.80	1.80	AAH
MAX8559EBAJJ	2.85	2.85	AAC
MAX8559EBAJG	2.85	3.00	AAI
MAX8559EBAII	2.90	2.90	AAB
MAX8559EBAG2	3.00	1.80	AAJ
MAX8559EBAGJ	3.00	2.85	AAD
MAX8559EBAGG	3.00	3.00	AAA
MAX8559EBAAA	3.30	3.30	AAL
MAX8559ETA88	1.50	1.50	AOL
MAX8559ETA8A	1.50	3.30	AIM
MAX8559ETA22	1.80	1.80	API
MAX8559ETA2G	1.80	3.00	ALK
MAX8559ETA11	1.85	1.85	AOV
MAX8559ETAP2	2.50	1.80	ALL
MAX8559ETAO1	2.60	1.85	APJ
MAX8559ETAK2	2.80	1.80	ALM
MAX8559ETAKG	2.80	3.00	AIN
MAX8559ETAJ2	2.85	1.80	ALD
MAX8559ETAJJ	2.85	2.85	AIG
MAX8559ETAJG	2.85	3.00	ALN
MAX8559ETAII	2.90	2.90	AIF
MAX8559ETAG2	3.00	1.80	ALO
MAX8559ETAGG	3.00	3.00	AIE
MAX8559ETAAO	3.30	2.60	APK
MAX8559ETAAJ	3.30	2.85	AOM
MAX8559ETAAA	3.30	3.30	APD

Note: Standard output voltage options, shown in bold, are available. Contact the factory for other output voltages between 1.5V and 3.3V. Minimum order quantity is 15,000 units.

Pin Configurations (continued)



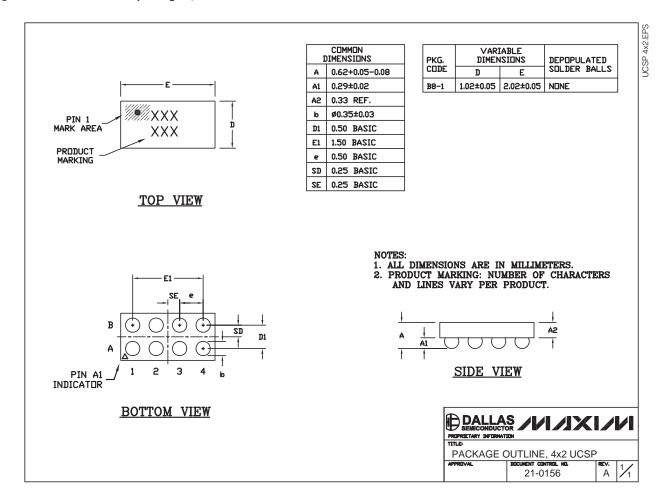
Chip Information

TRANSISTOR COUNT: 634

PROCESS: BiCMOS

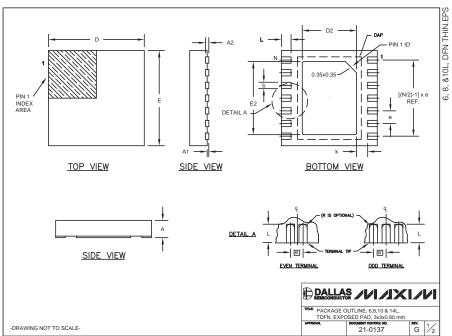
Package Information

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to www.maxim-ic.com/packages.)



Package Information (continued)

(The package drawing(s) in this data sheet may not reflect the most current specifications. For the latest package outline information, go to www.maxim-ic.com/packages.)



COMM	ON DIME	NSIONS	1							
SYMBOL	MIN.	MAX.	1							
Α	0.70	0.80	1							
D	2.90	3.10]							
E	2.90	3.10]							
A1	0.00	0.05	1							
L	0.20	0.40								
k		25 MIN.	1							
A2	0.2	0 REF.	J							
									_	
PACKAGE VAI	RIATIONS	;							1	
PKG. CODE	N	D2	E2	е	JEDEC SPEC	b	[(N/2)-1] x e	DOWNBONDS ALLOWED	1	
T633-1	6	1.50±0.10	2.30±0.10	0.95 BSC	MO229 / WEEA	0.40±0.05	1.90 REF	NO	1	
T633-2	6	1.50±0.10	2.30±0.10	0.95 BSC	MO229 / WEEA	0.40±0.05	1.90 REF	NO	1	
T833-1	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF	NO	1	
T833-2	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF	NO	1	
T833-3	8	1.50±0.10	2.30±0.10	0.65 BSC	MO229 / WEEC	0.30±0.05	1.95 REF	YES	1	
T1033-1	10	1.50±0.10	2.30±0.10	0.50 BSC	MO229 / WEED-3	0.25±0.05	2.00 REF	NO	1	
T1433-1	14	1.70±0.10	2.30±0.10	0.40 BSC		0.20±0.05	2.40 REF	YES		
T1433-2	14	1.70±0.10	2.30±0.10	0.40 BSC		0.20±0.05	2.40 REF	NO	1	
NOTES: I. ALL DIMENS 2. COPLANARI 3. WARPAGE S	Y SHALL SHALL NO ENGTH/F	NOT EXCI T EXCEED PACKAGE W RISTIC(S).	ED 0.08 n 0.10 mm. IDTH ARE C	onsidered	AS IENSIONS "D2" ANI	, #co#		DALLAS		

Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time.

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MAX8559

Part Number Table

Notes:

- 1. See the MAX8559 QuickView Data Sheet for further information on this product family or download the MAX8559 full data sheet (PDF, 244kB).
- 2. Other options and links for purchasing parts are listed at: http://www.maxim-ic.com/sales.
- 3. Didn't Find What You Need? Ask our applications engineers. Expert assistance in finding parts, usually within one business day.
- 4. Part number suffixes: T or T&R = tape and reel; + = RoHS/lead-free; # = RoHS/lead-exempt. More: See full data sheet or Part Naming Conventions.
- 5. * Some packages have variations, listed on the drawing. "PkgCode/Variation" tells which variation the product uses.

Part Number	Free Sample	Buy Direct	Package: TYPE PINS SIZE DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis
MAX8559ETAG2-T				-40C to +85C	RoHS/Lead-Free: No
MAX8559ETAG2				-40C to +85C	RoHS/Lead-Free: No
MAX8559ETA22+T			THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJ2+T			THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJ2+			THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAGG+			THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAGG+T			THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis

Dwg: 21-01371 (PDF) Use pkgcode/variation: T833+2* Materials Analysis Use pkgcode/variation: T833+2* Materials Analysis Materials Analysis Use pkgcode/variation: T833+2* Materials Analysis Materials Analysis Materials Analysis Materials Analysis Materials Analysis Materials Analysis Materials Males Materi				
Dwg: 21-01371 (PDF)	MAX8559ETAO1+T	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-01371 (PDF) Use pkgcode/variation: T833+2*	MAX8559ETAO1+	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-0137I (PDF)	MAX8559ETAM1+T	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-01371 (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: Ye Materials Analysis Use pkgcode/variation: T833-2* MAX8559ETA8A+ THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: Ye Materials Analysis Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: Ye Materials Analysis Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: Ye Materials Analysis Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: No Materials Analysis Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm -40C to +85C RoHS/Lead-Free: Ye Materials Analysis Use pkgcode/variation: T833-2* -40C to +85C RoHS/Lead-Free: Ye Materials Analysis -40C to +85C RoHS/Lead-Free: Ye Materials A	MAX8559ETAM1+	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-01371 (PDF)	MAX8559ETAJJ+T	Dwg: 21-0137I (PDF)	-40C to +85C	
MAX8559ETA8A+ Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* -40C to +85C Materials Analysis RoHS/Lead-Free: Ye Materials Analysis MAX8559ETA22+ THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* -40C to +85C Materials Analysis RoHS/Lead-Free: Ye Materials Analysis MAX8559ETAKG-T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C Materials Analysis RoHS/Lead-Free: No Materials Analysis MAX8559ETAJJ-T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C Materials Analysis RoHS/Lead-Free: No Materials Analysis MAX8559ETAGG-T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C Materials Analysis RoHS/Lead-Free: No Materials Analysis MAX8559ETAGG+T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C Materials Analysis RoHS/Lead-Free: Ye Materials Analysis MAX8559ETAG2+T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* -40C to +85C Materials Analysis RoHS/Lead-Free: Ye Materials Analysis	MAX8559ETAJ2-T	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* MAX8559ETAKG-T MAX8559ETAJJ-T MAX8559ETAGG-T MAX855	MAX8559ETAAA+	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* MAX8559ETAJJ-T THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2* THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	MAX8559ETA8A+	Dwg: 21-0137I (PDF)	-40C to +85C	
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MAX8559ETA8A+T -40C to +85C RoHS/Lead-Free: Ye	MAX8559ETAG2+	Dwg: 21-0137I (PDF)	-40C to +85C	
	MAX8559ETA8A+T		-40C to +85C	RoHS/Lead-Free: Yes

MAX8559ETA8A-T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8559ETAJJ+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJ1+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJ1+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAAA+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJG+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAJG+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETA11+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETA11+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETA18+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETA88+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETA88+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAAG+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETADK+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETADK+	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8559ETAAK+T	THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833+2*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis

MAX8559ETAAK+				
Dwg: 21-0137 (PDF) Use pkgcode/variation: T833+2*	MAX8559ETAAK+	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-01371 (PDF)	MAX8559ETAAJ+T	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-01371 (PDF) Use pkgcode/variation: T833+2*	MAX8559ETA18+	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg; 21-01371 (PDF)	MAX8559ETAAG+T	Dwg: 21-0137I (PDF)	-40C to +85C	
Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2*	MAX8559ETAAJ+	Dwg: 21-0137I (PDF)	-40C to +85C	
MAX8559ETAKG Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* Materials Analysis MAX8559ETAKG THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C RoHS/Lead-Free: No Materials Analysis MAX8559ETAJ2 THIN QFN (Dual);8 pin;3X3X0.8mm Dwg: 21-0137I (PDF) Use pkgcode/variation: T833-2* -40C to +85C RoHS/Lead-Free: No Materials Analysis MAX8559EBAAA+T UCSP;8 pin; Dwg: 21-0156A (PDF) Use pkgcode/variation: B8+1* -40C to +85C RoHS/Lead-Free: Yes Materials Analysis MAX8559EBAJJ+T UCSP;8 pin; Dwg: 21-0156A (PDF) Use pkgcode/variation: B8+1* -40C to +85C RoHS/Lead-Free: Yes Materials Analysis MAX8559EBAGJ UCSP;8 pin; Dwg: 21-0156A (PDF) Use pkgcode/variation: B8+1* -40C to +85C RoHS/Lead-Free: No Materials Analysis MAX8559EBAJJ+ UCSP;8 pin; Dwg: 21-0156A (PDF) Use pkgcode/variation: B8-1* -40C to +85C RoHS/Lead-Free: Yes Materials Analysis MAX8559EBAGJ-T UCSP;8 pin; Dwg: 21-0156A (PDF) -40C to +85C RoHS/Lead-Free: No Materials Analysis	MAX8559ETAJJ	Dwg: 21-0137I (PDF)	-40C to +85C	
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Dwg: 21-0156A (PDF) Materials Analysis	MAX8559EBAJJ+	Dwg: 21-0156A (PDF)	-40C to +85C	
	MAX8559EBAGJ-T	Dwg: 21-0156A (PDF)	-40C to +85C	

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