



Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

MAX8882/MAX8883

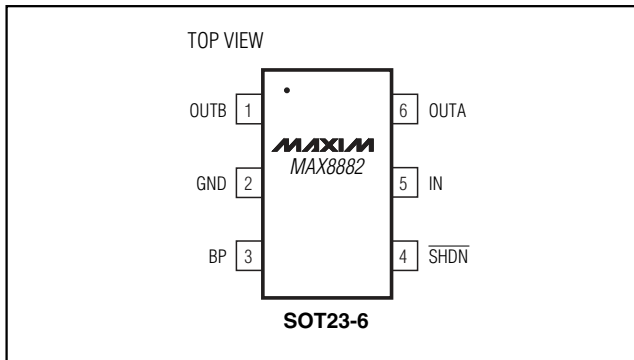
General Description

The MAX8882/MAX8883 dual, low-noise, low-dropout linear regulators operate from a +2.5V to +6.5V input and deliver up to 160mA each of continuous current. Both versions offer low output noise and low dropout of only 72mV at 80mA. Designed with an internal P-channel MOSFET pass transistor, the MAX8882/MAX8883 maintain a low 165µA supply current (both LDOs on), independent of the load current and dropout voltage. Other features include short-circuit protection and thermal-shutdown protection. The MAX8882 has a single shutdown input and provides an external reference bypass pin to improve noise performance. The MAX8883 includes two independent logic-controlled shutdown inputs. The MAX8882/MAX8883 are both available in a miniature 6-pin SOT23 package.

Applications

- µP/DSP Core/IO Power
- Cellular and PCS Telephones
- PDA's and Palmtop Computers
- Notebook Computers
- Digital Cameras
- Hand-Held Instruments

Pin Configurations



Pin Configurations continued at end of data sheet.

Features

- ◆ Two LDOs in Tiny SOT23
- ◆ Up to 160mA Output Current (each LDO)
- ◆ 40µVRMS Output Noise (MAX8882)
- ◆ 72mV Dropout at 80mA Load
- ◆ Low 165µA Operating Supply Current
- ◆ 62dB PSRR (greater than 56dB to 100kHz)
- ◆ Independent Low-Power Shutdown Controls (MAX8883)
- ◆ Thermal-Overload and Short-Circuit Protection
- ◆ Output Current Limit

Selector Guide

PART	V _{OUTA}	V _{OUTB}	TOP MARK
MAX8882EUTJJ	2.85	2.85	AANR
MAX8882EUTAQ	3.3	2.5	AAPW
MAX8882EUTA5	3.3	1.8	AARY
MAX8882EUTQ5	2.5	1.8	AAPX
MAX8882EUTGG	3.0	3.0	AAZT
MAX8883EUTJJ	2.85	2.85	AANS
MAX8883EUTAQ	3.3	2.5	AAPY
MAX8883EUTA5	3.3	1.8	AARZ
MAX8883EUTQ5	2.5	1.8	AAPZ
MAX8883EUTGG	3.0	3.0	AAZU

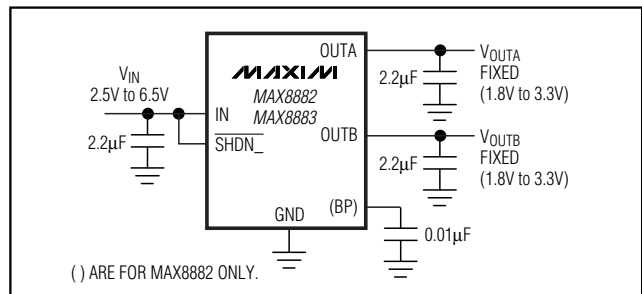
***Other combinations between 1.8V and 3.3V are available in 100mV increments. Contact factory for other versions. Minimum order quantity is 50,000 units.

Ordering Information

PART	SHUT-DOWN	TEMP RANGE	PIN-PACKAGE
MAX8882EUT_*	Single	-40°C to +85°C	6 SOT23-6
MAX8883EUT_*	Dual	-40°C to +85°C	6 SOT23-6

*See Selector Guide

Typical Operating Circuit



Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

ABSOLUTE MAXIMUM RATINGS

IN, $\overline{\text{SHDN}}$, $\overline{\text{SHDNA}}$, $\overline{\text{SHDNB}}$, BP to GND -0.3V to +7.0V
 OUTA, OUTB to GND -0.3V to ($V_{\text{IN}} + 0.3\text{V}$)
 Output Short-Circuit Duration Continuous
 Continuous Power Dissipation ($T_A = +70^\circ\text{C}$)
 6-Pin SOT23 (derate 8.7mW/ $^\circ\text{C}$ above +70 $^\circ\text{C}$) 695mW

Operating Temperature Range -40 $^\circ\text{C}$ to +85 $^\circ\text{C}$
 Junction Temperature +150 $^\circ\text{C}$
 Storage Temperature Range -65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
 Lead Temperature (soldering, 10s) +300 $^\circ\text{C}$

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.

ELECTRICAL CHARACTERISTICS

($V_{\text{IN}} = +3.6\text{V}$, $\overline{\text{SHDN}} = \overline{\text{SHDNA}} = \overline{\text{SHDNB}} = \text{IN}$, $T_A = -40^\circ\text{C}$ to +85 $^\circ\text{C}$, unless otherwise noted. Typical values are at $T_A = +25^\circ\text{C}$.) (Note 1)

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input Voltage		2.5		6.5	V
Undervoltage Lockout Threshold	V_{IN} rising, hysteresis 40mV typical	2.15	2.25	2.40	V
Output Voltage Accuracy	$T_A = +25^\circ\text{C}$, $I_{\text{OUT}_-} = 1\text{mA}$	-1		1	%
	$I_{\text{OUT}_-} = 1\text{mA}$	-2		2	
	$I_{\text{OUT}_-} = 100\mu\text{A}$ to 160mA	-3		2	
Maximum Output Current	Continuous	160			mA
Current Limit		160		550	mA
Ground Current	No Load, $V_{\text{IN}} = 6.5\text{V}$		165	265	μA
	$I_{\text{OUT}_-} = 80\text{mA}$, both LDOs		170		
Shutdown Supply Current	$\overline{\text{SHDN}}_- = \text{GND}$, $T_A = +25^\circ\text{C}$		0.01	1	μA
	$\overline{\text{SHDN}}_- = \text{GND}$		0.1		
$\overline{\text{SHDN}}_-$ Input Threshold	V_{IH}	1.6			V
	V_{IL}			0.4	
$\overline{\text{SHDN}}_-$ Input Bias Current	$\overline{\text{SHDN}}_- = \text{GND}$ or IN, $T_A = +25^\circ\text{C}$		0	100	nA
	$\overline{\text{SHDN}}_- = \text{GND}$ or IN		0.05		
Dropout Voltage (Notes 2, 3)	$I_{\text{OUT}_-} = 1\text{mA}$		1		mV
	$I_{\text{OUT}_-} = 40\text{mA}$		36		
	$I_{\text{OUT}_-} = 80\text{mA}$		72	144	
Line Regulation	$V_{\text{IN}} = (V_{\text{OUT}_-} + 0.4\text{V}$ or $2.5\text{V})$ to + 6.5V, $I_{\text{OUT}_-} = 1\text{mA}$	-0.2	0	0.2	%/V
Output Voltage Noise	10Hz to 100kHz, $C_{\text{BP}} = 0.01\mu\text{F}$, $C_{\text{OUT}_-} = 4.7\mu\text{F}$, $I_{\text{OUT}_-} = 1\text{mA}$		40		μVRMS
	10Hz to 100kHz, $C_{\text{OUT}_-} = 4.7\mu\text{F}$, $I_{\text{OUT}_-} = 10\text{mA}$		320		

Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

MAX8882/MAX8883

ELECTRICAL CHARACTERISTICS (continued)

($V_{IN} = +3.6V$, $\overline{SHDN} = \overline{SHDNA} = \overline{SHDNB} = IN$, $T_A = -40^\circ C$ to $+85^\circ C$, unless otherwise noted. Typical values are at $T_A = +25^\circ C$.) (Note 1)

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output Voltage AC PSRR	100Hz, $C_{BP} = 0.01\mu F$, $C_{OUT_} = 4.7\mu F$		62		dB
	100Hz, $C_{OUT_} = 4.7\mu F$		60		
Thermal Shutdown Temperature			160		$^\circ C$
Thermal Shutdown Hysteresis			10		$^\circ C$

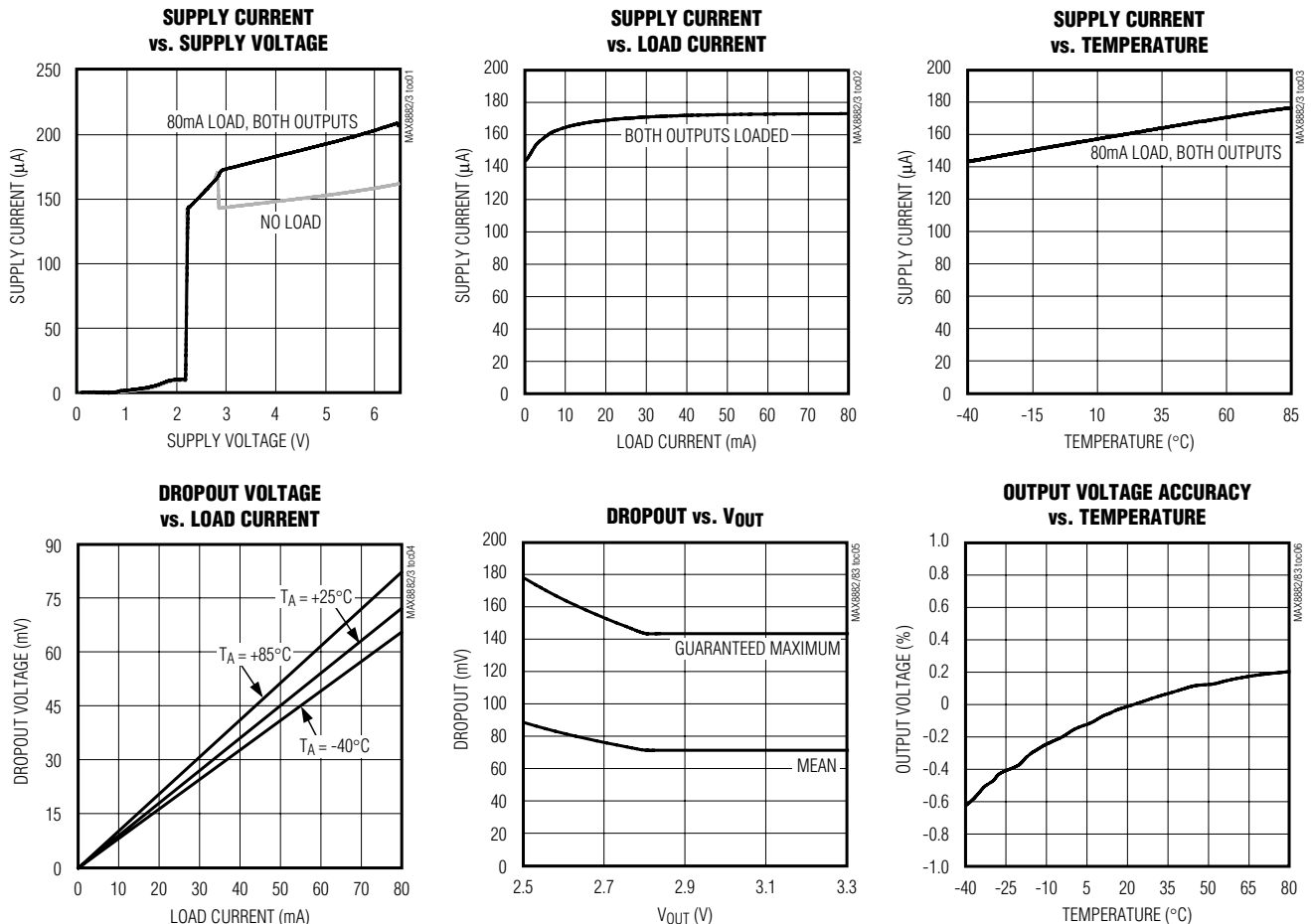
Note 1: All units are 100% production tested at $T_A = +25^\circ C$. Limits over the operating temperature range are guaranteed by design.

Note 2: The dropout voltage is defined as $V_{IN} - V_{OUT}$ when $V_{IN} = V_{OUT}$ (NOM). Specification only applies when $V_{OUT} \geq 2.5V$.

Note 3: See the *Typical Operating Characteristics* for guaranteed specifications at voltages other than 3.3V.

Typical Operating Characteristics

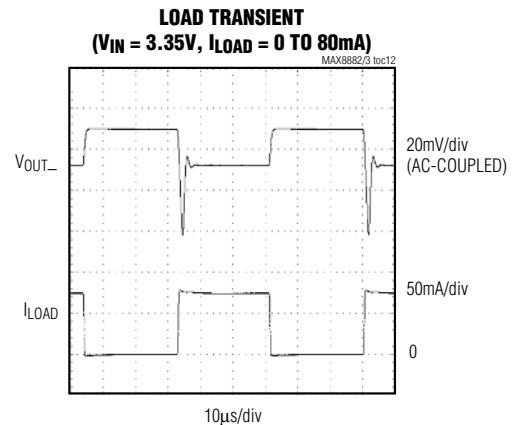
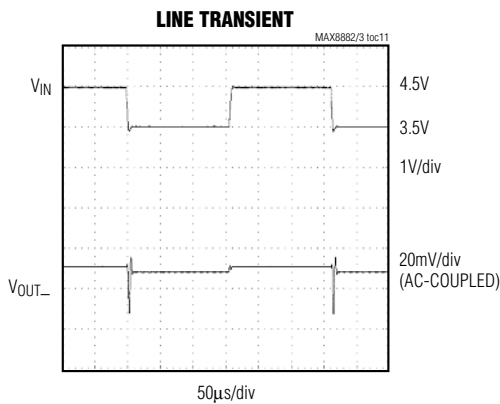
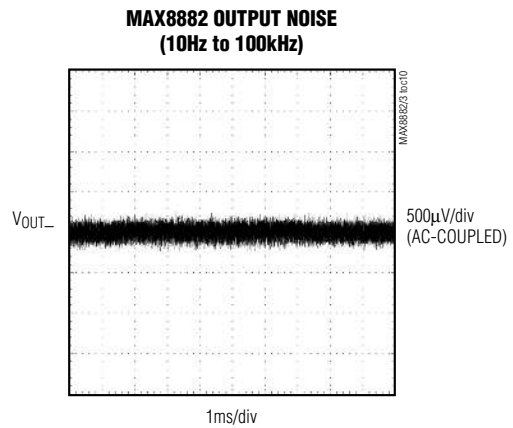
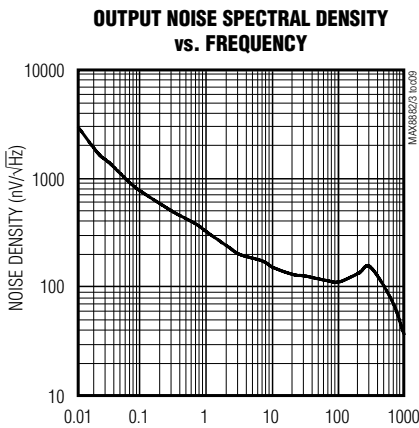
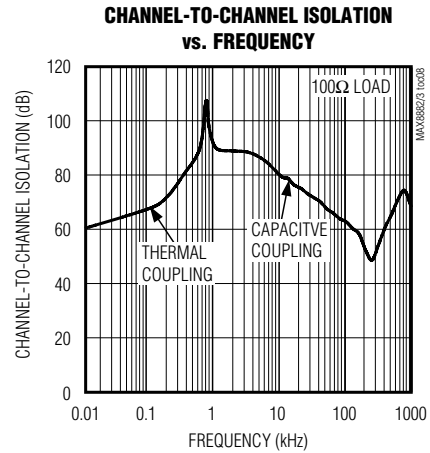
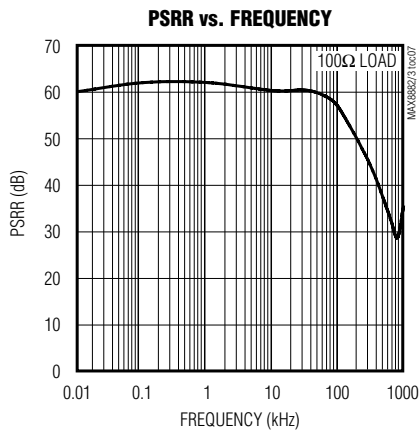
($V_{OUT_} = 2.85V$, $I_{OUT_} = 80mA$, $V_{IN} = +3.6V$, $C_{OUT_} = 2.2\mu F$, $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$, unless otherwise noted.)



Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

Typical Operating Characteristics (continued)

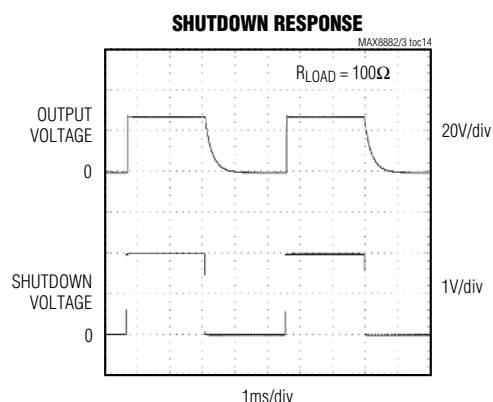
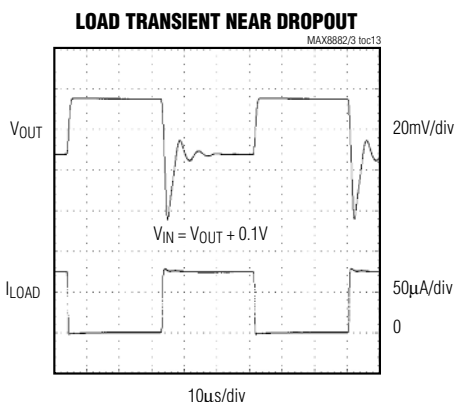
($V_{OUT_} = 2.85V$, $I_{OUT_} = 80mA$, $V_{IN} = +3.6V$, $C_{OUT_} = 2.2\mu F$, $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$, unless otherwise noted.)



Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

Typical Operating Characteristics (continued)

($V_{OUT_} = 2.85V$, $I_{OUT_} = 80mA$, $V_{IN} = +3.6V$, $C_{OUT_} = 2.2\mu F$, $C_{BP} = 0.01\mu F$, and $C_{IN} = 2.2\mu F$, unless otherwise noted.)



Pin Description

PIN		NAME	FUNCTION
MAX8882	MAX8883		
1	1	OUTB	Regulator B Output. Sources up to 160mA continuous current. Bypass with a 2.2 μ F (<0.5 Ω typ ESR) capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section).
2	2	GND	Ground. This pin also functions as a heatsink. Solder to a large pad or the circuit-board ground plane to maximize thermal dissipation.
3	—	BP	Reference Noise Bypass. Bypass with a low-leakage 0.01 μ F ceramic capacitor for reduced noise at both outputs.
—	3	\overline{SHDNA}	Shutdown A Input. A logic low shuts down regulator A. If \overline{SHDNA} and \overline{SHDNB} are both low, both regulators and the reference turn off, and supply current is reduced to 10nA. If either \overline{SHDNA} or \overline{SHDNB} is a logic high, the reference is on. Connect to IN for normal operation.
—	4	\overline{SHDNB}	Shutdown B Input. A logic low shuts down regulator B. If \overline{SHDNA} and \overline{SHDNB} are both low, both regulators and the reference turn off, and supply current is reduced to 10nA. If either \overline{SHDNA} or \overline{SHDNB} is a logic high, the reference is on. Connect to IN for normal operation.
4	—	\overline{SHDN}	Shutdown Input. A logic low shuts down both regulators and the reference, reducing the entire supply current to 10nA. Connect to IN for normal operation.
5	5	IN	Regulator Input. Supply voltage can range from +2.5V to +6.5V. This input also supplies the on-chip reference. Bypass with 2.2 μ F to GND (see the <i>Capacitor Selection and Regulator Stability</i> section).
6	6	OUTA	Regulator A Output. Sources up to 160mA continuous current. Bypass with a 2.2 μ F (<0.5 Ω typ ESR) capacitor to GND (see the <i>Capacitor Selection and Regulator Stability</i> section).

Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

Detailed Description

The MAX8882/MAX8883 are low-noise, low-dropout, low-quiescent-current linear regulators designed primarily for battery-powered applications. These parts are available with preset output voltages ranging from 1.8V to 3.3V, and the parts can supply loads up to 160mA.

Shutdown

MAX8882

The MAX8882 has a single shutdown control input ($\overline{\text{SHDN}}$). Drive $\overline{\text{SHDN}}$ low to shut down both outputs, reducing supply current to 10nA. Connect $\overline{\text{SHDN}}$ to a logic-high, or IN, for normal operation.

MAX8883

The MAX8883 has independent shutdown control inputs ($\overline{\text{SHDNA}}$ and $\overline{\text{SHDNB}}$). Drive $\overline{\text{SHDNA}}$ low to shut down OUTA. Drive $\overline{\text{SHDNB}}$ low to shut down OUTB. Drive both $\overline{\text{SHDNA}}$ and $\overline{\text{SHDNB}}$ low to shut down the entire chip, reducing supply current to 10nA. Connect both $\overline{\text{SHDNA}}$ and $\overline{\text{SHDNB}}$ to a logic-high, or IN, for normal operation.

Internal P-Channel Pass Transistor

The MAX8882/MAX8883 feature two 1Ω 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, which reduces quiescent current significantly. 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 MAX8882/MAX8883 do not suffer from these problems and only consume $165\mu\text{A}$ of quiescent current whether in dropout, light-load, or heavy-load applications (see the *Typical Operating Characteristics*). While a PNP-based regulator has 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 voltage at lighter loads.

Current Limit

The MAX8882/MAX8883 contain two independent current limiters, one for each regulator, which monitor and control the pass transistor's gate voltage, limiting the guaranteed maximum output current to 160mA minimum. The output can be shorted to ground for an indefinite time without damaging the part.

Thermal-Overload Protection

Thermal-overload protection limits total power dissipation in the MAX8882/MAX8883. When the junction tem-

perature exceeds $T_J = +160^\circ\text{C}$, the thermal sensor signals the shutdown logic, turning off the pass transistor and allowing the IC to cool. The thermal sensor will turn the pass transistor on again after the IC's junction temperature cools by 10°C , resulting in a pulsed output during continuous thermal-overload conditions.

Thermal-overload protection is designed to protect the MAX8882/MAX8883 in the event of fault conditions. For continual operation, do not exceed the absolute maximum junction-temperature rating of $T_J = +150^\circ\text{C}$.

Operating Region and Power Dissipation

The MAX8882/MAX8883's maximum power dissipation depends on the thermal resistance of the case and circuit board, the temperature difference between the die junction and ambient air, and the rate of air flow. The power dissipation across the device is $P = I_{\text{OUT}} (V_{\text{IN}} - V_{\text{OUT}})$ (Figure 1). The maximum power dissipation is:

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

where $T_J - T_A$ is the temperature difference between the MAX8882/MAX8883 die junction and the surrounding air, T_{JB} (or T_{JC}) is the thermal resistance of the package, and T_{BA} is the thermal resistance through the printed circuit board, copper traces, and other materials to the surrounding air.

The GND pin of the MAX8882/MAX8883 performs the dual functions of providing an electrical connection to the ground and channeling heat away. Connect the GND pin to ground using a large pad or ground plane.

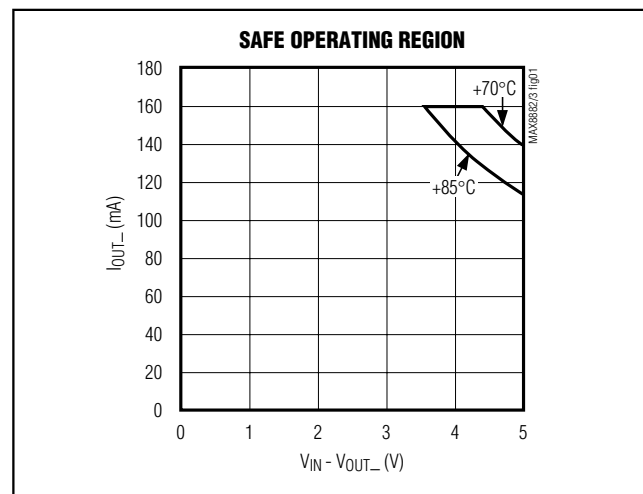


Figure 1. MAX8882/MAX8883 Safe Operating Region

Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

MAX8882/MAX8883

Low-Noise Operation (MAX8882)

An external 0.01 μ F bypass capacitor at BP, in conjunction with an internal resistor, creates a lowpass filter. The MAX8882 exhibits 40 μ V_{RMS} of output voltage noise with C_{BP} = 0.01 μ F and C_{OUT_} = 4.7 μ F. (See the Output Noise Spectral Density graph in the *Typical Operating Characteristics*.)

Applications Information

Capacitor Selection and Regulator Stability

Use a 2.2 μ F capacitor on the MAX8882/MAX8883 input and a 2.2 μ F capacitor on the outputs. Larger input capacitor values and lower ESRs provide better supply-noise rejection and line-transient response. To reduce noise, improve load transients, and for loads up to 160mA, use larger output capacitors (up to 10 μ F). For stable operation over the full temperature range and with load currents up to 80mA, use 2.2 μ F.

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 4.7 μ F or more to ensure stability at temperatures below -10°C. With X7R or X5R dielectrics, 2.2 μ F is sufficient at all operating temperatures. These regulators are optimized for ceramic capacitors, and tantalum capacitors are not recommended.

Use a 0.01 μ F bypass capacitor at BP (MAX8882) for low output voltage noise. Increasing the capacitance will slightly decrease the output noise, but increase the startup time. (See the Shutdown Response graph in the *Typical Operating Characteristics*.)

PSRR and Operation from Sources Other than Batteries

The MAX8882/MAX8883 are designed to deliver low dropout voltages and low quiescent currents in battery-powered systems. Power-supply rejection is 62dB at low frequencies and rolls off above 100kHz. (See the PSRR vs. Frequency graph in the *Typical Operating Characteristics*.)

When operating from sources other than batteries, improved supply-noise rejection and transient response can be achieved by increasing the values of the input and output bypass capacitors and through passive filtering techniques.

Dropout Voltage

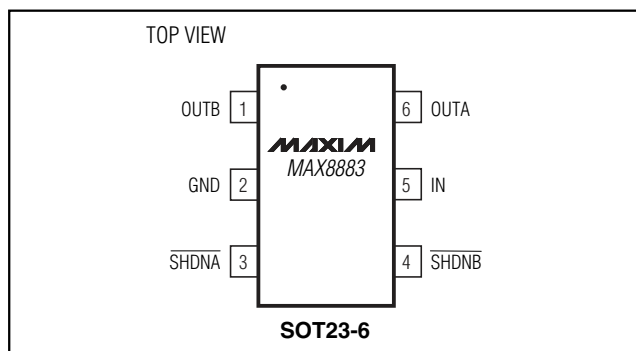
A regulator's minimum input-output voltage differential (or dropout voltage) determines the lowest usable supply voltage. In battery-powered systems, this determines the useful end-of-life battery voltage. Because the MAX8882/MAX8883 use a P-channel MOSFET pass transistor, their dropout voltage is a function of drain-to-source on-resistance (R_{DS(ON)}) multiplied by the load current (see the *Typical Operating Characteristics*).

Chip Information

TRANSISTOR COUNT: 493

PROCESS: BiCMOS

Pin Configurations (continued)



Dual, Low-Noise, Low-Dropout, 160mA Linear Regulators in SOT23

Package Information

SEE NOTE 5
EXAMPLE
TOP MARK

PIN 1
I.D. DOT
(SEE NOTE 6)

PIN #1

SYMBOL	MIN	MAX
A	0.90	1.45
A1	0.00	0.15
A2	0.90	1.30
b	0.35	0.50
C	0.08	0.20
D	2.80	3.00
E	2.60	3.00
E1	1.50	1.75
L	0.35	0.55
e	0.95 REF	
α	0°	10°

NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. FOOT LENGTH MEASURED AT INTERCEPT POINT BETWEEN DATUM A & LEAD SURFACE.
 3. PACKAGE OUTLINE EXCLUSIVE OF MOLD FLASH & METAL BURR.
 4. PACKAGE OUTLINE INCLUSIVE OF SOLDER PLATING.
 5. PIN 1 IS LOWER LEFT PIN WHEN READING TOP MARK FROM LEFT TO RIGHT. (SEE EXAMPLE TOP MARK)
 6. PIN 1 I.D. DOT IS 0.3 MM Ø MIN. LOCATED ABOVE PIN 1.
 7. MEETS JEDEC MO178.

MAXIM			
<small>PROPRIETARY INFORMATION</small>			
<small>TITLE:</small>			
PACKAGE OUTLINE, SOT-23, 6L			
<small>APPROVAL</small>	<small>DOCUMENT CONTROL NO.</small>	<small>REV</small>	<small>1/1</small>
	21-0058	E	

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WHAT'S NEW

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MAX8882

Part Number Table

Notes:

1. See the [MAX8882 QuickView Data Sheet](#) for further information on this product family or download the [MAX8882 full data sheet](#) (PDF, 252kB).
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
MAX8882EUT	<input type="checkbox"/>	<input type="checkbox"/>		-40C to +85C	RoHS/Lead-Free: No
MAX8882EUT-T	<input type="checkbox"/>	<input type="checkbox"/>		-40C to +85C	RoHS/Lead-Free: No
MAX8882EUTQ5	<input type="checkbox"/>	<input type="checkbox"/>	SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTA5	<input type="checkbox"/>	<input type="checkbox"/>	SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTAQ+	<input type="checkbox"/>	<input type="checkbox"/>	SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTAQ	<input type="checkbox"/>	<input type="checkbox"/>	SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTGG+	<input type="checkbox"/>	<input type="checkbox"/>	SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis

MAX8882EUTGG			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTJ5+			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTJ5			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTJJ+			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTJJ			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTQ5+			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTA5+			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTA5-T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTGG-T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTJ5-T				-40C to +85C	RoHS/Lead-Free: No
MAX8882EUTJJ-T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTQ5-T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis
MAX8882EUTQ5+T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTA5+T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTAQ+T				-40C to +85C	RoHS/Lead-Free: Yes
MAX8882EUTGG+T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis

MAX8882EUTJ5+T				-40C to +85C	RoHS/Lead-Free: Yes
MAX8882EUTJJ+T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S+3*	-40C to +85C	RoHS/Lead-Free: Yes Materials Analysis
MAX8882EUTAQ-T			SOT-23;6 pin; Dwg: 21-00581 (PDF) Use pkgcode/variation: U6S-3*	-40C to +85C	RoHS/Lead-Free: No Materials Analysis

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