CHANGE NOTIFICATION

Linear Technology Corporation
1630 McCarthy Blvd., Milpitas, CA 95035-7417
(408) 432-1900

January 9, 2013

PCN#: 010913

Dear Sir/Madam:

Subject: Notification of Change to LTC3539 and LTC3539-2 Datasheet

Please be advised that Linear Technology has made a datasheet change to improve the Feedback Voltage tolerance from +/-2.5% to +/-1.5% maximum. The typical value is unchanged at 1.200V. The changes are shown on the marked up product datasheet page as attached to this PCN. There is no change to the die.

This change was qualified by performing characterization of multiple lots over the full operating temperature range. Product assembled with a date code of 1250 or later will be tested to the new tighter limits.

Should you have any further questions, please feel free to contact me at 408-432-1900 ext. 2519, or by e-mail at NGirn@Linear.com. If I do not hear from you by February 11th, 2013, we will consider this change to be approved by your company.

Sincerely,

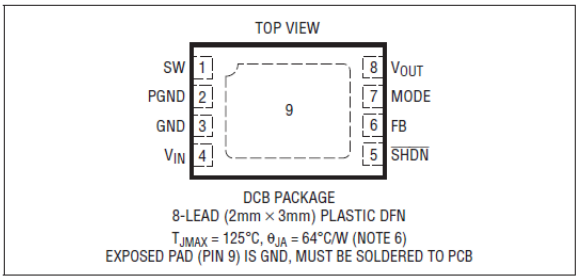
Naib Girn
Quality Assurance Manager

ABSOLUTE MAXIMUM RATINGS

(Note 1)

V_{IN} Voltage ..... –0.3V to 6V
SW Voltage
  DC ..... –0.3V to 6V
  Pulsed <100ns ..... –0.3V to 7V
$\overline{SHDN}$, FB, MODE Voltage ..... –0.3V to 6V
V_{OUT} ..... –0.3V to 6V
Operating Temperature (Notes 2, 5) ..... –40°C to 85°C
Storage Temperature Range ..... –65°C to 125°C

PIN CONFIGURATION



DCB PACKAGE
8-LEAD (2mm × 3mm) PLASTIC DFN
T_{JMAX} = 125°C, θ_{JA} = 64°C/W (NOTE 6)
EXPOSED PAD (PIN 9) IS GND, MUST BE SOLDERED TO PCB

ORDER INFORMATION

LEAD FREE FINISH	TAPE AND REEL	PART MARKING	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LTC3539EDCB#PBF	LTC3539EDCB#TRPBF	LDCS	8-Lead (2mm × 3mm) Plastic DFN	–40°C to 85°C
LTC3539EDCB-2#PBF	LTC3539EDCB-2#TRPBF	LDPH	8-Lead (2mm × 3mm) Plastic DFN	–40°C to 85°C

Consult LTC Marketing for parts specified with wider operating temperature ranges.
Consult LTC Marketing for information on non-standard lead based finish parts.

For more information on lead free part marking, go to: http://www.linear.com/leadfree/
For more information on tape and reel specifications, go to: http://www.linear.com/tapeandreel/

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ELECTRICAL CHARACTERISTICS

The ● denotes the specifications which apply over the specified temperature range of –40°C to 85°C, otherwise specifications are at T_A = 25°C. V_{IN} = 1.2V, V_{OUT} = 3.3V, unless otherwise noted.

PARAMETER	CONDITIONS		MIN	TYP	MAX	UNITS
Input Voltage Range	After Start-Up		0.5		5	V
Minimum Start-Up Voltage	I_{LOAD} = 1mA, V_{OUT} = 0V			0.7	0.88	V
Output Voltage Adjust Range		●	1.5		5.25	V
Feedback Voltage		●	~~1.170~~	1.200	~~1.230~~	V
Feedback Input Current	V_{FB} = 1.2V			1	50	nA
Quiescent Current - Shutdown	V_{SHDN} = 0V, Not Including Switch Leakage, V_{OUT} = 0V			0.01	1	µA
Quiescent Current - Active	Measured on V_{OUT}, Non-Switching			300	500	µA
Quiescent Current - Burst	Measured on V_{OUT}, FB >1.230V			10	18	µA
N-Channel MOSFET Switch Leakage Current	V_{SW} = 5V			0.1	10	µA
P-Channel MOSFET Switch Leakage Current	V_{SW} = 5V, V_{OUT} = 0V			0.1	20	µA
N-Channel MOSFET Switch On Resistance	V_{OUT} = 3.3V			0.09		Ω
P-Channel MOSFET Switch On Resistance	V_{OUT} = 3.3V			0.125		Ω
N-Channel MOSFET Current Limit		●	2	2.6		A