

CHANGE NOTIFICATION



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

August 14, 2013

Dear Sir/Madam:

PCN# 081413

Subject: Notification of Change to LT8610 Datasheet

Please be advised that Linear Technology Corporation has made a minor change to the LT8610 product datasheet to take into account the effects seen due to package related stress during assembly process. The changes are shown on the attached page of the marked up datasheet. There was no change made to the product die or to the temperature limit for Vref. The product shipped after October 13, 2013 will be tested to the new limits.

Should you have any further questions, please feel free to contact me at 408-432-1900 ext. 2077, or by e-mail at JASON.HU@linear.com. If I do not hear from you by October 16th, 2013, we will consider this change approved by your company.

Sincerely,

Jason Hu
Quality Assurance Engineer

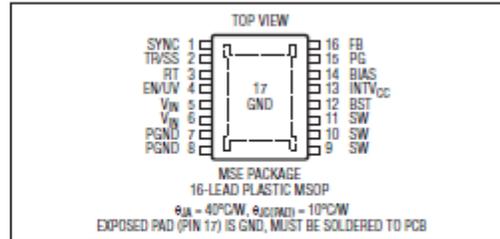
LT8610

ABSOLUTE MAXIMUM RATINGS

(Note 1)

V_{IN} , EN/UV, PG.....	42V
BIAS.....	30V
BST Pin Above SW Pin.....	4V
FB, TR/SS, RT, INTV _{CC}	4V
SYNC Voltage	6V
Operating Junction Temperature Range (Note 2)	
LT8610E.....	-40 to 125°C
LT8610I.....	-40 to 125°C
Storage Temperature Range	-65 to 150°C

PIN CONFIGURATION



ORDER INFORMATION

LEAD FREE FINISH	TAPE AND REEL	PART MARKING*	PACKAGE DESCRIPTION	TEMPERATURE RANGE
	LT8610EMSE#TRPBF	8610	16-Lead Plastic MSOP	-40°C to 125°C
	LT8610IMSE#PBF	8610	16-Lead Plastic MSOP	-40°C to 125°C

Consult LTC Marketing for parts specified with wider operating temperature ranges. *The temperature grade is identified by a label on the shipping container. 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/tapeandreeel/>

ELECTRICAL CHARACTERISTICS

The ● denotes the specifications which apply over the full operating temperature range, otherwise specifications are at $T_A = 25^\circ\text{C}$.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS	
Minimum Input Voltage		●	2.9	3.4	V	
V_{IN} Quiescent Current	$V_{EN/UV} = 0V$, $V_{SYNC} = 0V$	●	1.0	3	μA	
		●	1.0	8	μA	
	$V_{EN/UV} = 2V$, Not Switching, $V_{SYNC} = 0V$	●	1.7	4	μA	
		●	1.7	10	μA	
	$V_{EN/UV} = 2V$, Not Switching, $V_{SYNC} = 2V$		0.24	0.5	mA	
V_{IN} Current in Regulation	$V_{OUT} = 0.97V$, $V_{IN} = 6V$, Output Load = 100 μA	●	24	50	μA	
	$V_{OUT} = 0.97V$, $V_{IN} = 6V$, Output Load = 1mA	●	210	350	μA	
Feedback Reference Voltage	$V_{IN} = 6V$, $I_{LOAD} = 0.5A$	0.984	-0.967	0.970	0.973	V
	$V_{IN} = 6V$, $I_{LOAD} = 0.5A$	●	0.958	0.970	0.982	V
Feedback Voltage Line Regulation	$V_{IN} = 4.0V$ to $42V$, $I_{LOAD} = 0.5A$	●	0.004	0.02	%/V	
Feedback Pin Input Current	$V_{FB} = 1V$		-20	20	nA	
INTV _{CC} Voltage	$I_{LOAD} = 0mA$, $V_{BIAS} = 0V$		3.23	3.4	3.57	V
	$I_{LOAD} = 0mA$, $V_{BIAS} = 3.3V$		3.25	3.29	3.35	V
INTV _{CC} Undervoltage Lockout			2.5	2.6	2.7	V
BIAS Pin Current Consumption	$V_{BIAS} = 3.3V$, $I_{LOAD} = 1A$, 2MHz		8.5		mA	
Minimum On-Time	$I_{LOAD} = 1A$, $SYNC = 0V$	●	30	50	70	ns
	$I_{LOAD} = 1A$, $SYNC = 3.3V$	●	30	45	65	ns
Minimum Off-Time			50	80	110	ns

8610f