

## CHANGE NOTIFICATION



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

June 27, 2014

Dear Sir/Madam:

PCN# 062714

**Subject: Notification of Change to LTM2882-3/-5 Datasheet**

Please be advised that Linear Technology Corporation has made a minor change to the LTM2882-3/-5 Datasheet to improve manufacturability. A datasheet change to the  $I_{CC2}$  (Output Supply Short-Circuit Current) specification removes the temperature range and maximum value. The specification is changed to a typical value of 200mA as shown in the attached redlined electrical characteristics table. There were no changes to the die, and all other functional and parametric specifications are unchanged. Product shipped after August 27, 2014 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 email at [JASON.HU@LINEAR.COM](mailto:JASON.HU@LINEAR.COM). If I do not hear from you by August 27, 2014, we will consider this change to be approved by your company.

Sincerely,

Jason Hu  
Quality Assurance Engineer

## ORDER INFORMATION

PART NUMBER	INPUT VOLTAGE	PAD OR BALL FINISH	PART MARKING		PACKAGE TYPE	MSL RATING	TEMPERATURE RANGE
			DEVICE	FINISH CODE			
LTM2882CY-3#PBF	3V to 3.6V	SAC305 (RoHS)	LTM2882Y-3	e1	BGA	3	0°C to 70°C
LTM2882IY-3#PBF							-40°C to 85°C
LTM2882HY-3#PBF (OBSOLETE)							-40°C to 105°C
LTM2882MPY-3#PBF (OBSOLETE)							-55°C to 105°C
LTM2882CY-5#PBF	4.5V to 5.5V	SAC305 (RoHS)	LTM2882Y-5	e1	BGA	3	0°C to 70°C
LTM2882IY-5#PBF							-40°C to 85°C
LTM2882HY-5#PBF (OBSOLETE)							-40°C to 105°C
LTM2882MPY-5#PBF (OBSOLETE)							-55°C to 105°C
LTM2882CV-3#PBF	3V to 3.6V	Au (RoHS)	LTM2882V-3	e4	LGA	3	0°C to 70°C
LTM2882IV-3#PBF			-40°C to 85°C				
LTM2882CV-5#PBF	4.5V to 5.5V		LTM2882V-5				0°C to 70°C
LTM2882IV-5#PBF			-40°C to 85°C				

- Device temperature grade is indicated by a label on the shipping container.
- Pad or ball finish code is per IPC/JEDEC J-STD-609.
- Terminal Finish Part Marking: [www.linear.com/leadfree](http://www.linear.com/leadfree)
- This product is not recommended for second side reflow. For more information, go to: [www.linear.com/BGA-assy](http://www.linear.com/BGA-assy)

- Recommended BGA and LGA PCB Assembly and Manufacturing Procedures: [www.linear.com/umodule/pcbassembly](http://www.linear.com/umodule/pcbassembly)
- LGA and BGA Package and Tray Drawings: [www.linear.com/packaging](http://www.linear.com/packaging)
- This product is moisture sensitive. For more information, go to: [www.linear.com/umodule/pcbassembly](http://www.linear.com/umodule/pcbassembly)

**ELECTRICAL CHARACTERISTICS** The ● denotes the specifications which apply over the full operating temperature range, otherwise specifications are at  $T_A = 25^\circ\text{C}$ . LTM2882-3  $V_{CC} = 3.3\text{V}$ , LTM2882-5  $V_{CC} = 5.0\text{V}$ ,  $V_L = V_{CC}$ , and  $\text{GND} = \text{GND}2 = 0\text{V}$ ,  $\text{ON} = V_L$  unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS	
<b>Supplies</b>							
$V_{CC}$	Input Supply Range	LTM2882-3	●	3.0	3.3	3.6	V
		LTM2882-5	●	4.5	5.0	5.5	V
$V_L$	Logic Supply Range		●	1.62	5.5	V	
$I_{CC}$	Input Supply Current	ON = 0V	●	0	10	$\mu\text{A}$	
		LTM2882-3, No Load	●	24	30	mA	
		LTM2882-5, No Load	●	17	21	mA	
$V_{CC2}$	Regulated Output Voltage, Loaded	LTM2882-3 DE = 0V, $I_{LOAD} = 100\text{mA}$	●	4.7	5.0	V	
		LTM2882-5 DE = 0V, $I_{LOAD} = 150\text{mA}$	●	4.7	5.0	V	
$V_{CC2(\text{NOLOAD})}$	Regulated Output Voltage, No Load	DE = 0, No Load		4.8	5.0	5.35	V
		Efficiency	$I_{CC2} = 100\text{mA}$ , LTM2882-5 (Note 2)		65		%
$I_{CC2}$	Output Supply Short-Circuit Current		Delete →	200	250	mA	
<b>Driver</b>							
$V_{OLD}$	Driver Output Voltage Low	$R_L = 3\text{k}\Omega$	●	-5	-5.7	V	
$V_{OHD}$	Driver Output Voltage High	$R_L = 3\text{k}\Omega$	●	5	6.2	V	
$I_{OSD}$	Driver Short-Circuit Current	$V_{T1OUT}, V_{T2OUT} = 0\text{V}$ , $V_{CC2} = 5.5\text{V}$	●	±35	±70	mA	
$I_{OZD}$	Driver Three-State (High Impedance) Output Current	DE = 0V, $V_{T1OUT}, V_{T2OUT} = \pm 15\text{V}$	●	±0.1	±10	$\mu\text{A}$	

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For more information [www.linear.com/LTM2882](http://www.linear.com/LTM2882)

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