

CHANGE NOTIFICATION



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

April 03, 2015

Dear Sir/Madam:

PCN# 040315

Subject: Notification of Change to LT1910 Top Mark

Please be advised that Linear Technology Corporation has made a minor change to the LT1910 product top mark to have common top mark for both E and I grades. Besides this change, no functional, parametric, mechanical, or datasheet specifications are affected and the component bill of materials remains unchanged. Similarly, there are no changes associated with the package footprint, or PCB layout, so the customer applications will be unaffected. The product with new top mark will be shipped after June 3, 2015.

Should you have any further questions or concerns please contact your local Linear Technology Sales person or you may 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 June 3, 2015, we will consider this change to be approved by your company.

Sincerely,

Jason Hu
Quality Assurance Engineer

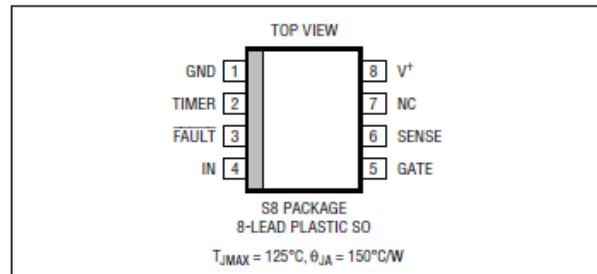
LT1910

ABSOLUTE MAXIMUM RATINGS

(Note 1)

Supply Voltage (Pin 8)	-15V to 60V
Input Voltage (Pin 4)	(GND - 0.3V) to 15V
GATE Voltage (Pin 5)	75V
SENSE Voltage (Pin 6)	V ⁺ ±5V
FAULT Voltage (Pin 3)	36V
Current (Pins 1, 2, 4, 5, 6, 8)	40mA
Operating Temperature Range (Note 2)	
LT1910E	-40°C to 85°C
LT1910I	-40°C to 125°C
Junction Temperature Range	-40°C to 125°C
Storage Temperature Range	-65°C to 150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONFIGURATION



ORDER INFORMATION

LEAD FREE FINISH	TAPE AND REEL	PART MARKING	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LT1910ES8#PBF	LT1910ES8#TRPBF	1910E 1910	8-Lead Plastic SO	-40°C to 85°C
LT1910IS8#PBF	LT1910IS8#TRPBF	1910I 1910	8-Lead Plastic SO	-40°C to 125°C
LEAD BASED FINISH	TAPE AND REEL	PART MARKING	PACKAGE DESCRIPTION	TEMPERATURE RANGE
LT1910ES8	LT1910ES8#TR	1910E 1910	8-Lead Plastic SO	-40°C to 85°C
LT1910IS8	LT1910IS8#TR	1910I 1910	8-Lead Plastic SO	-40°C to 125°C

Consult LTC Marketing for parts specified with wider operating temperature ranges.

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°C. V⁺ = 12V to 48V unless otherwise noted.

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
I _S	Supply Current (Off State)	V ⁺ = 48V, V _{IN} = 0.8V	1.2	1.9	2.5	mA
ΔI _{S(ON)}	Delta Supply Current (On State)	V _{IN} = 2V, Measure Increase in I _S		0.8	1.2	mA
V _{INH}	Input High Voltage	E-Grade ● I-Grade ●	2 3.5			V
V _{INL}	Input Low Voltage	E-Grade ● I-Grade ●			0.8 0.7	V
I _{IN}	Input Current	V _{IN} = 2V ● V _{IN} = 5V ●	15 55	30 110	50 185	μA
C _{IN}	Input Capacitance (Note 3)			5		pF
V _{T(TH)}	Timer Threshold Voltage	V _{IN} = 2V, Adjust V _T ●	2.6	2.9	3.2	V
V _{T(CL)}	Timer Clamp Voltage	V _{IN} = 0.8V	3.2	3.5	3.8	V
I _T	Timer Charge Current	V _{IN} = V _T = 2V	9	14	20	μA
V _{SENSE}	Drain-Sense Threshold Voltage Temperature Coefficient (Note 3)		50	65 0.33	80	mV %/°C

1910tb

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For more information www.linear.com/LT1910

