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MR16 EVALUATION BOARD USER GUIDE

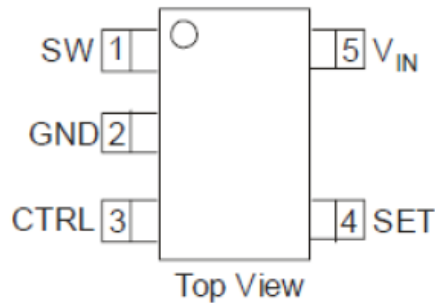
AL8805 DEVICE DESCRIPTION

The AL8805 is a continuous mode inductive driver in a SOT25 package, for driving one or more series-connected LEDs efficiently from a voltage source higher than the LED voltage. The device includes the output switch and a current sense circuit, which requires an external sense resistor to set the nominal current up to 1000mA.

AL8805 DEVICE FEATURES

- Drives one or more series-connected LEDs
- LEDs up to 1000mA.
- Internal 30V switch.
- Wide input voltage: 6V to 30V.
- Inherent open circuit LED protection.
- Brightness control using DC or PWM

AL8805 Device Packages, Pin and Definitions



SOT25 pack

AL8805 Device Pin Definition

Name	Pin No	Description
SW	1	Drain of NDMOS switch.
GND	2	Ground (0V).
CTRL	3	Internal voltage ref. pin (2.5V) : <ul style="list-style-type: none">• Leave floating for normal operation.• Connect to GND to turn off output current.• Drive with DC voltage (0.4V to 2.5V) or with PWM (up to 5V logic level) signal to adjust output current
SET	4	Connect a sense resistor, R1, from the SET pin to VIN to sense the nominal output current. Nominal $I_{out} = 0.1 / R1$
VIN	5	Input voltage: 6V to 30V. Decouple to ground with a 2.2uF or higher ceramic capacitor.

The AL8805 is configured to the reference design in Figure 2.

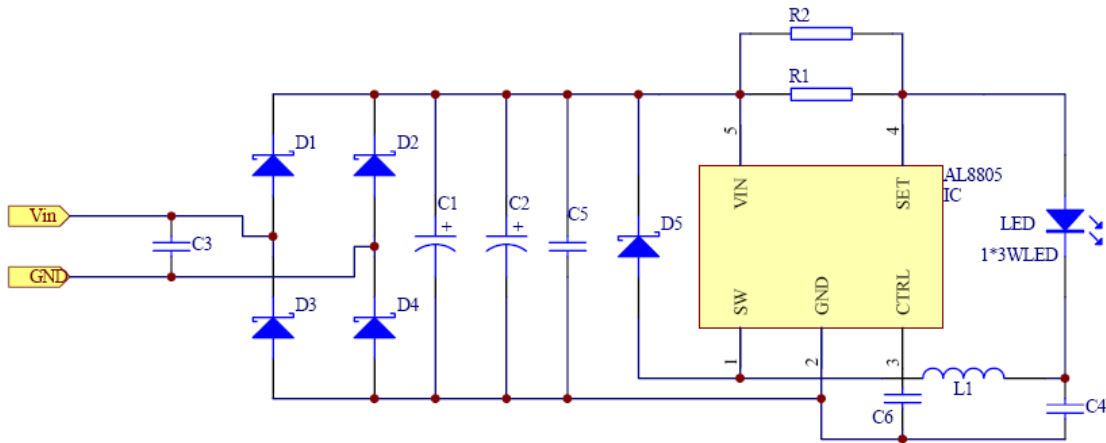


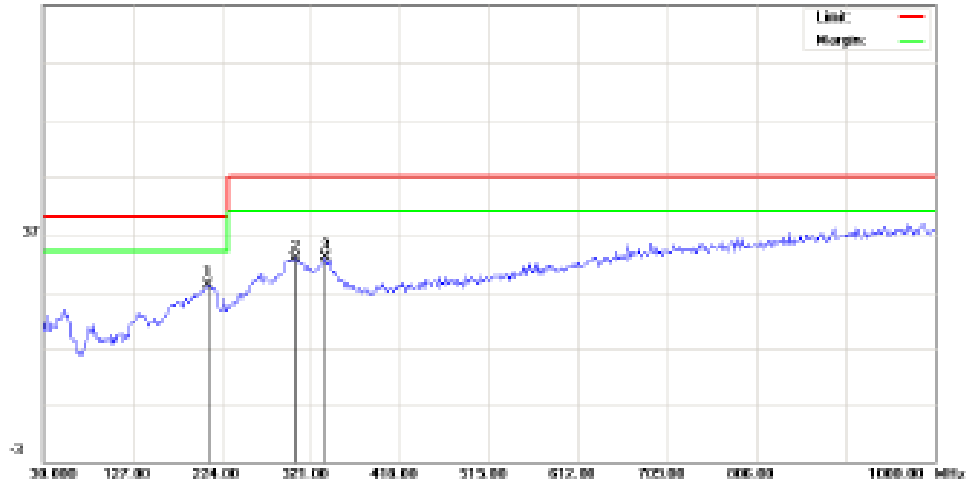
Figure 2: Schematic diagram

Component list

序号	物料名称	型号规格	封装	数量	位置	备注
1	电阻	0.3R±1%	0805	1	R1	
2		0.75R±1%	0805	2	R2	
3	电容	220uF/25V	E-CAP	2	C1, C2	
4		10nF	0805	1	C3	
5		1nF	0805	1	C4	
6		1uF	0805	1	C5	
7		100nF	0603	1	C6	
8	二极管	B160	SMA	4	D1, D2, D3, D4	DIODES
9		B160	SMA	1	D5	DIODES
10	电感	47uH		1	L1	
11	IC	ZXLD1360	SOT-25	1	IC	DIODES

Radiated Emission Measurement

File :08 Data :#7 Date: 2011/08/29 Time: 15:24:04
 75.9 dBuV/m



Site site #1 Polarization: **Vertical** Temperature: 25
 Limit: EN 55022 Class B Radiation Power: DC 12V Humidity: 55 %
 EUT: POWER
 M/N: MR16-1
 Mode: NORMAL
 Note:

No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		PF	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	209.4500	14.87			13.32	28.19			40.00		-11.81		P	
2	304.8333	15.87			16.98	32.85			47.00		-14.15		P	
3	337.1667	15.31			17.74	33.05			47.00		-13.95		P	

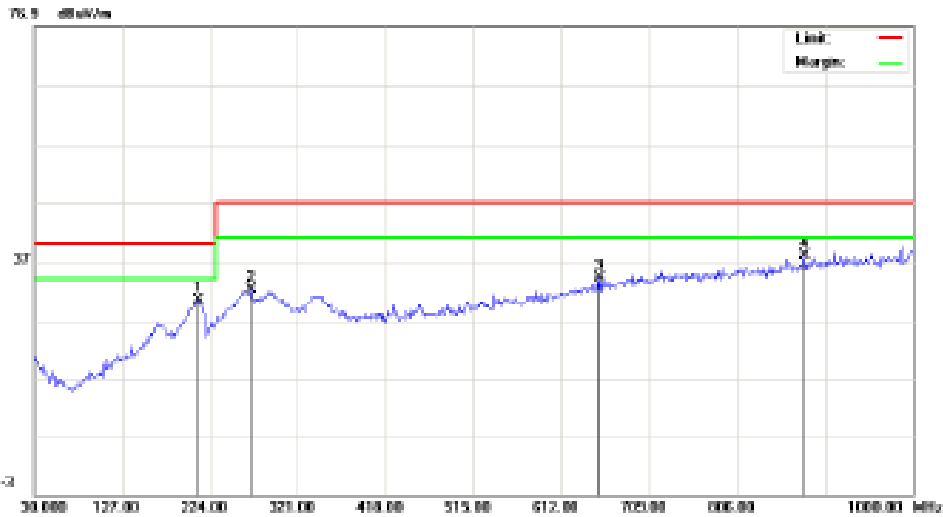
*:Maximum data x:Over limit !:over margin

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Radiated Emission Measurement

File: 03 Data: #0 Date: 2011/05/29 Time: 15:25:04



Site: site #1 Polarization: **Horizontal** Temperature: 25
 Limit: EN 55022 Class B Radiation Power: DC 12V Humidity: 55 %
 EUT: POWER
 MIN: MR16-1
 Mode: NORMAL
 Note:

No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	211.0667	16.98			13.38	30.36			40.00		-9.64		F	
2	269.2667	16.45			15.67	32.12			47.00		-14.88		F	
3	654.0333	9.92			24.38	34.30			47.00		-12.70		F	
4	880.3667	10.28			27.81	38.09			47.00		-8.91		F	

*:Maximum data x:Over limit !:over margin