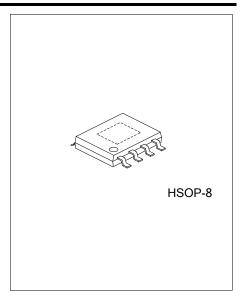
UL67C **CMOS IC**

HIGH ACCURACY LINEAR CONSTANT CURRENT LED **DRIVER**

DESCRIPTION

The UTC UL67C is a linear constant current IC with a built-in power MOSFET. The output current can be adjusted from 5mA to 60mA, and constant current accuracy up to ± 4%. The application scheme is simple and the cost is low. This device also incorporates temperature compensation and thermal shutdown functions.

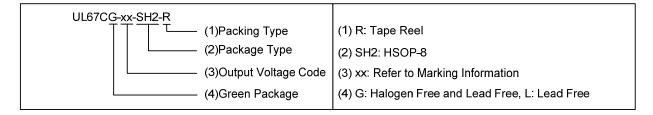


FEATURES

- * 5mA ~ 60mA Output Current
- * Up to ± 4% Constant Current Accuracy
- * Built-in Power MOSFET
- * No EMC Problem
- * Temperature Compensate
- * Thermal Shutdown

ORDERING INFORMATION

Ordering Number		Package	Packing	
Lead Free	Lead Free Halogen Free			
UL67CL-xx-SH2-R	UL67CG-xx-SH2-R	HSOP-8	Tape Reel	

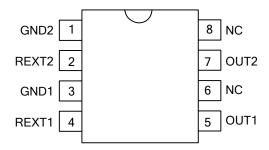


Cwww.flying1688.com www.unisonic.com.tw 1 of 6 QW-R125-067.C UL67C cmos ic

MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
HSOP-8	03: 0.3V 06: 0.6V	Voltage Code L: Lead Free C: Halogen Free Lot Code

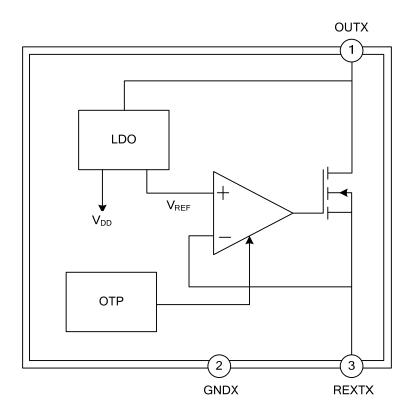
■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION		
1	GND2	Ground2.		
2	REXT2	Output2 Current Setting Pin.		
3	GND1	Ground1.		
4	REXT1	Output1 Current Setting Pin.		
5	OUT1	Current Output1 Pin.		
6, 8	NC			
7	OUT2	Current Output2 Pin.		

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
OUT Pin Voltage	V_{OUT}	-0.5 ~ 450	V
OUT Pin Current	I _{OUT}	5 ~ 60	mA
Junction Temperature	T_J	-40 ~ + 150	°C
Storage Temperature	T _{STG}	-50 ~ + 150	°C

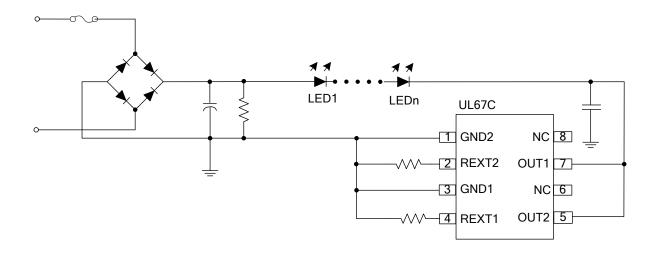
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

RECOMMENDED OPERATING CONDITIONS

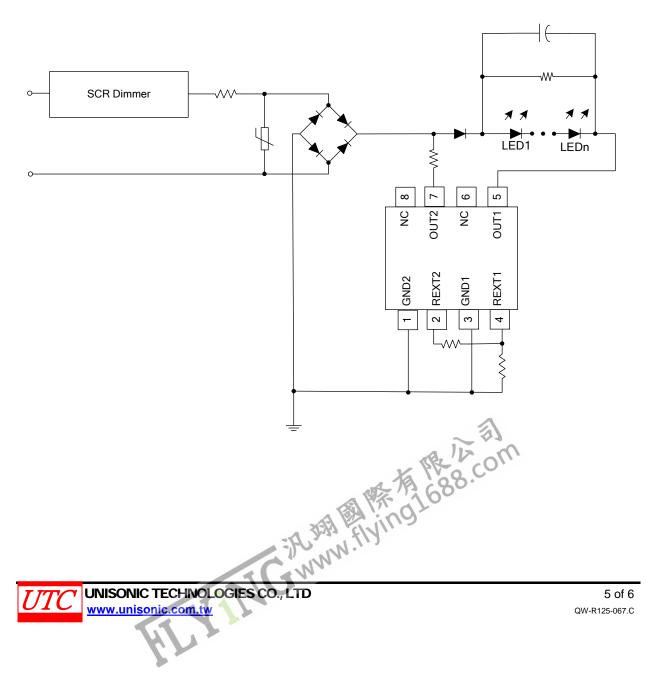
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
OUT Pin Voltage	V _{OUT}	I _{OUT} =30mA	6.5			V
OUT Pin Withstanding Voltage		I _{OUT} =0	450			V
Output Current	l _{out}		5		60	mA
Quiescent Current	ΙQ	V _{OUT} =10V REXT No Collection		0.16	0.25	mA
REXT Pin Voltage		V _{OUT} =10V		0.3		V
	V _{REXT}			0.6		V
Output Current Error		I _{OUT} =5~60mA		± 4		%
Temperature Compensate Point	T _{CP}			140		°C



TYPICAL APPLICATION CIRCUIT



TRIC APPLICATION CIRCUIT



UL67C

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CMOS IC