

UTC UNISONIC TECHNOLOGIES CO., LTD

UL66C

HIGH ACCURACY LINEAR CONSTANT CURRENT LED DRIVER

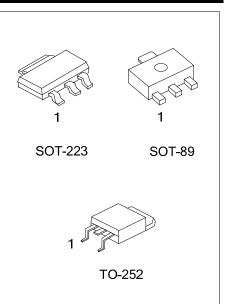
DESCRIPTION

The UTC UL66C 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 \pm 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
- * No EMC Problem
- * Temperature Compensate
- * Thermal Shutdown

ORDERING INFORMATION



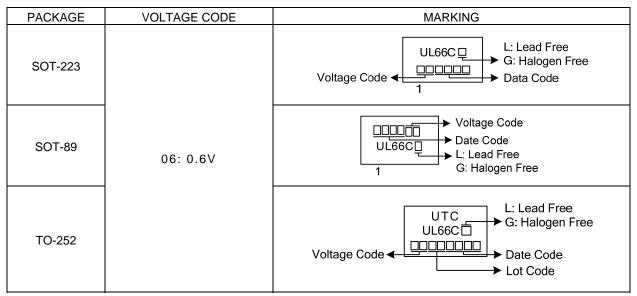
Ordering Number		Dookogo	Booking	
Lead Free	Halogen Free	Package	Packing	
UL66CL-xx-AA3-R	UL66CG-xx-AA3-R	SOT-223	Tape Reel	
UL66CL-xx-AB3-R	UL66CG-xx-AB3-R	SOT-89	Tape Reel	
UL66CL-xx-TN3-R	UL66CG-xx-TN3-R	TO-252	Tape Reel	
Note: xx: Output Voltage, ret	fer to Marking Information.			

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UL66CG-xx-AA3-R		
	 (1)Packing Type 	(1) R: Tape Reel
	 (2)Package Type 	(2) AA3: SOT-223, AB3: SOT-89, TN3: TO-252
	· (3)Output Voltage Code	(3) xx: Refer to Marking Information
	- (4)Green Package	(4) G: Halogen Free and Lead Free, L: Lead Free

CMOS IC

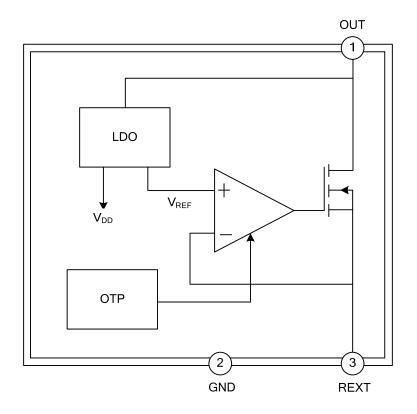
MARKING INFORMATION



PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	OUT	Current Output Pin.
2	GND	Ground.
3	REXT	Output Current Setting Pin.

BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATING

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

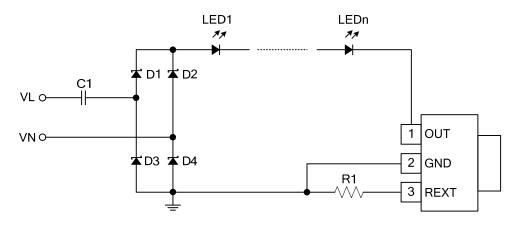
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS

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



TYPICAL APPLICATION CIRCUIT



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