

UTC UNISONIC TECHNOLOGIES CO., LTD

UL66C

HIGH ACCURACY LINEAR CONSTANT CURRENT LED DRIVER

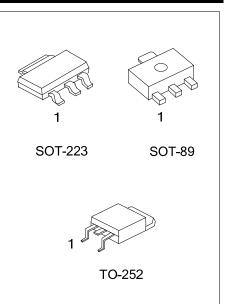
DESCRIPTION

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



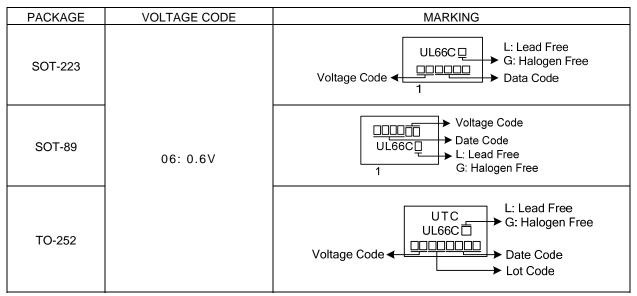
Ordering Number		Dookogo	Booking	
Lead Free	Halogen Free	Package	Packing	
UL66CL-xx-AA3-R	UL66CG-xx-AA3-R	SOT-223	Tape Reel	
UL66CL-xx-AB3-R	UL66CG-xx-AB3-R	SOT-89	Tape Reel	
UL66CL-xx-TN3-R	UL66CG-xx-TN3-R	TO-252	Tape Reel	
Note: xx: Output Voltage, ret	fer to Marking Information.			

Note: xx: Output Voltage, refer to Marking Information.

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

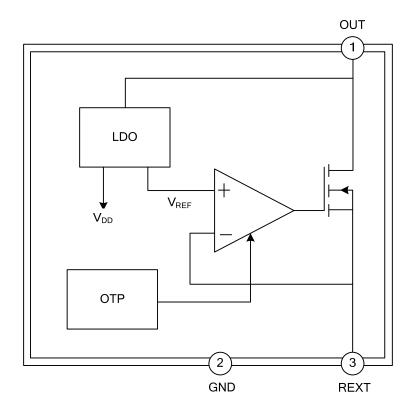
MARKING INFORMATION



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

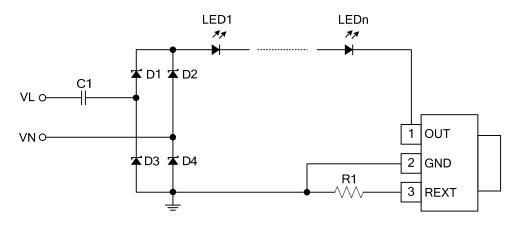
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Display Drivers category:

Click to view products by Unisonic manufacturer:

Other Similar products are found below :

STP16CPP05XTTR SCT2027CSSG KP22306WGA KP1199AWPA KP1199BWPA GN1628T BCT3236EGH-TR HT1628BRWZ KP1192SPA KP1182SPA KP1262FSPA KP1072LSPA KP1191SPA KP18001WPA KP1070LSPA KP1221SPA KP107ALSPA GN1640T MBI5253GP-A WS90561T S7P WS9821B S7P WS9032GS7P LYT3315D M08888G-11 M08890G-13 SCT2001ASIG SCT2024CSOG SCT2024CSSG AL8400QSE-7 PR4401 PR4403 PCA9685PW STP16CPC05XTTR WS2821B PR4402 M08898G-13 RT8471GJ5 TLC59482DBQR ISL97634IRT14Z-TK AW36413CSR LP5562TMX WS2818B BCR401R BCR401U BCR402U SCT2004CSOG SCT2026CSOG SCT2026CSSG SCT2932F SCT2932J