

UNISONIC TECHNOLOGIES CO., LTD

ULC6002

Preliminary

LINEAR INTEGRATED CIRCUIT

SPECIAL DRIVE FOR LED FLASHLIGHT

DESCRIPTION

UTC ULC6002 is a drive chip designed specifically for LED flashlights using dry batteries. It is suitable for one or two LED drives for dry battery applications. It only needs one inductive element on the periphery and is adjusted by the peripheral inductive element. Can meet the LED flashlight for different brightness requirements.

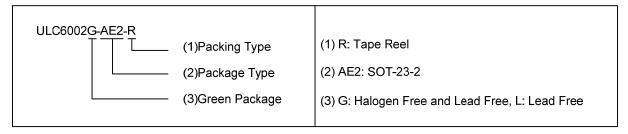
UTC ULC6002 has high reliability, high efficiency, wide operating voltage range, simple to use, and good production consistency.

FEATURES

- * Minimum operating input voltage 0.9V
- * Over 100mA output current
- * 85% efficiency

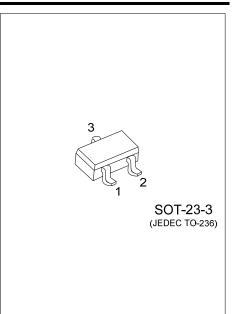
ORDERING INFORMATION

Ordering	Number	Package	Dooking	
Lead Free	Free Halogen Free		Packing	
ULC6002L-AE2-R	ULC6002G-AE2-R	SOT-23-3	Tape Reel	

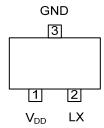


MARKING





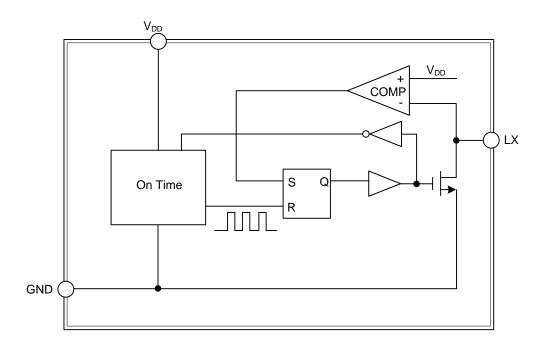
■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	V _{DD}	Power Pin
2	LX	LED Drive
3	GND	Ground.

BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATING

PARAMETER	TER SYMBOL RATINGS		UNIT
LX	V _{LX_MAX}	7	V
V _{DD}	V _{DD_MAX}	7	V
Junction Temperature	TJ	+125	°C
Operating Temperature	T _{OPR}	-20 ~ +85	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

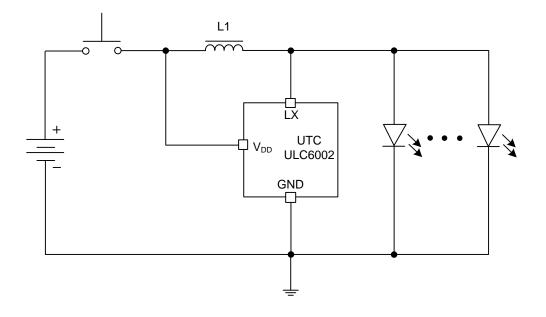
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Power	V _{DD}		0.9		3.2	V
On Time	Т	V _{DD} =2V		3.5		uS
Efficiency				85		%



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. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

