ULC6002

Preliminary

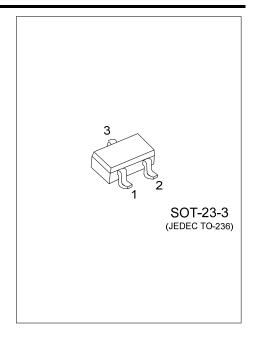
LINEAR INTEGRATED CIRCUIT

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.

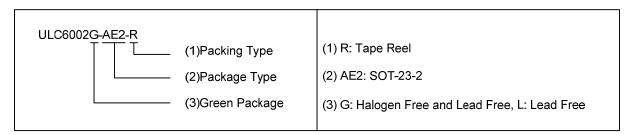


FEATURES

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

ORDERING INFORMATION

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

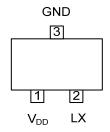


MARKING



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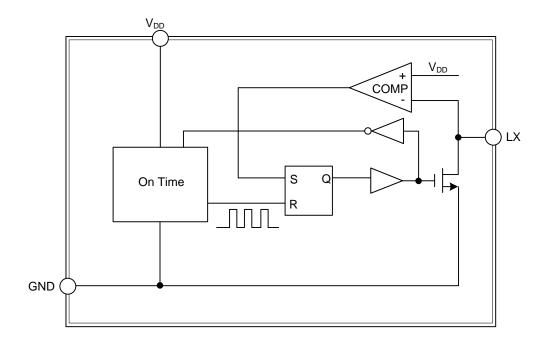
■ PIN CONFIGURATION



■ 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	ETER SYMBOL RATINGS		UNIT
LX	V_{LX_MAX}	7	V
V_{DD}	V_{DD_MAX}	7	V
Junction Temperature	T_J	+125	°C
Operating Temperature	T_{OPR}	-20 ~ +85	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

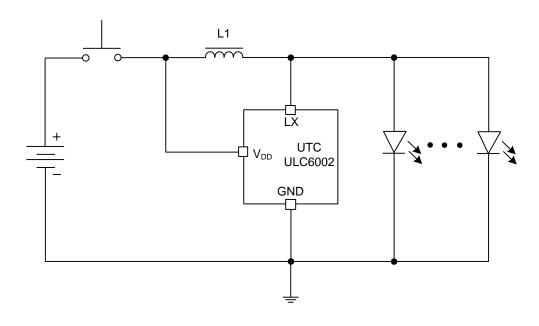
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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



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