



UC3501

Preliminary

CMOS IC

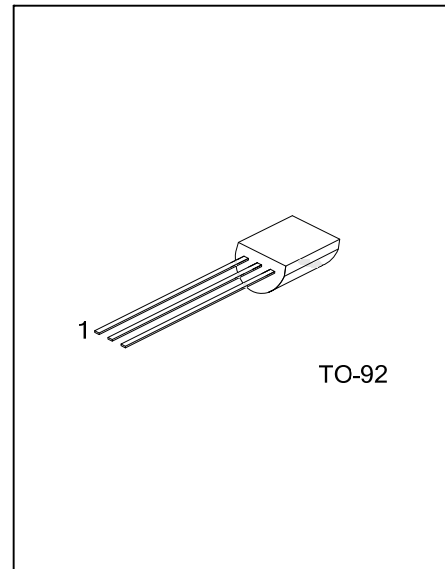
HIGH EFFICIENT, LOW COST FLASHLIGHT LED DRIVE

DESCRIPTION

UTC **UC3501** is Flashlight ASIC chip, Using LSI technology, Specifically designed for single dry battery, Plus 1 of inductors, May constitute a drive circuit for LED flashlights.

FEATURES

- * High efficiency:85%~90%
- * Low cost
- * Simply add-ins one inductor



ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
UC3501L-T92-B	UC3501G-T92-B	TO-92	O	D	G	Tape Box
UC3501L-T92-K	UC3501G-T92-K	TO-92	O	D	G	Bulk

Note: Pin Assignment: G: GND D: V_{DD} O: OUT

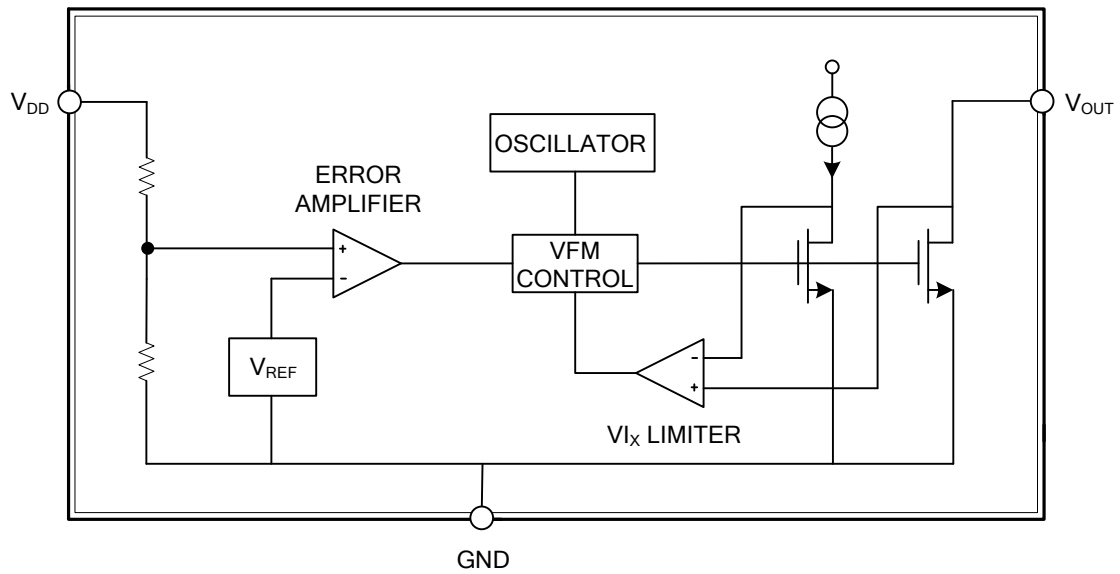
<p>UC3501L-T92-B</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) B: Tape Box, K: Bulk (2) T92: TO-92 (3) L: Lead Free, G: Halogen Free</p>
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MARKING INFORMATION

PACKAGE	MARKING
TO-92	<p>UTC UC3501 □ □ □ □ → L: Lead Free → G: Halogen Free → Data Code</p> <p>1</p>



■ BLOCK DIAGRAM



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■ ABSOLUTE MAXIMUM RATING

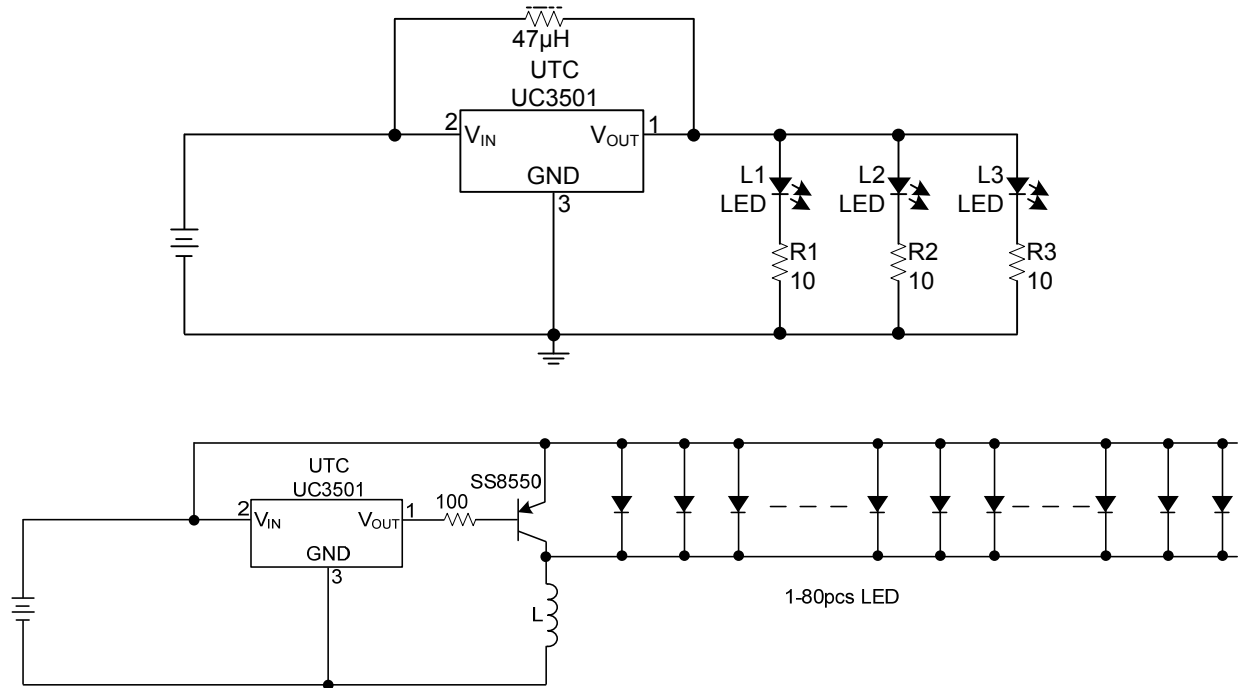
PARAMETER	SYMBOL	RATINGS	UNIT
Input Voltage	V_{IN}	6	V
Output Current	I_{OUT}	150	mA
Operating Junction Temperature	T_J	-40~85	°C
Storage Temperature	T_{STG}	-55~150	°C

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 ($T_A=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V_{DD}		0.9		5.0	V
Start Voltage	V_{START}			0.9		V
Output Current	I_{OUT}			100		mA
Oscillator Frequency	F_{OSC}			100		KHz
Efficiency	η			85		%

■ TYPICAL APPLICATION CIRCUIT



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