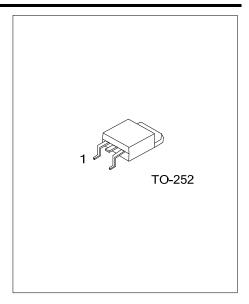
UL62 **CMOS IC Preliminary**

HIGH ACCURACY LINEAR CONSTANT CURRENT LED **DRIVER**

DESCRIPTION

The UTC UL62 is a linear constant current IC with a built-in 700V 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.



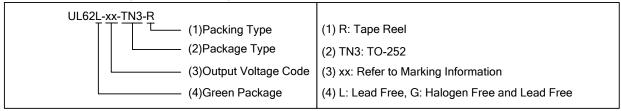
FEATURES

- * 5mA ~ 60mA Output Current
- * Up to ± 4% Constant Current Accuracy
- * Built-in 700V Power MOSFET
- * No EMC Problem
- * Temperature Compensate
- * Thermal Shutdown

ORDERING INFORMATION

Ordering	Dookogo	Dooking		
Lead Free	Halogen Free	Package	Packing	
UL62L-xx-TN3-R	UL62G-xx-TN3-R	TO-252	Tape Reel	

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



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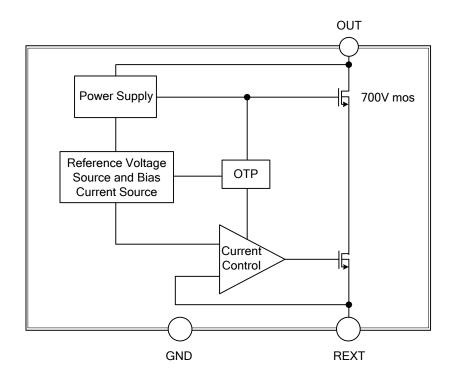
MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
TO-252	06:0.6V 10:1.0V	UTC UL62 → Lot Code Voltage Code ← → Date Code

■ 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 ~ 250	V
OUT Pin Current	I _{OUT}	5 ~ 60	mA
Operating Junction Temperature	T _{OPT}	-40 ~ +120	°C
Storage Junction Temperature	T _{STG}	-50 ~ + 150	°C

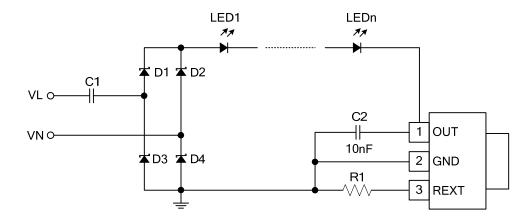
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
OUT Pin Voltage	V_{OUT}	I _{OUT} =30mA		6.5			V
OUT Pin Withstanding Voltage		I _{OUT} =0		250			V
Output Current	I _{OUT}			5		60	mΑ
Quiescent Current	ΙQ	V _{OUT} =10V REXT No Collection			0.16	0.25	mΑ
REXT Pin Voltage	V _{REXT}	V _{OUT} =10V	UL62-0.6V		0.6		V
			UL62-1.0V		1.0		
Output Current Error		I _{OUT} =5~60mA			± 4		%
Temperature Compensate Point	T _{CP}				108		°C



TYPICAL APPLICATION CIRCUIT



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