

UTC UNISONIC TECHNOLOGIES CO., LTD

UL6206B

Advance

HIGH ACCURACY LINEAR CONSTANT CURRENT LED DRIVER

DESCRIPTION

The UTC UL6206B is a linear constant current IC with a built-in power MOSFET. The output current can be adjusted from 5mA to 80mA, 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 ~ 80mA Output Current
- * Up to ± 4% Constant Current Accuracy
- * No EMC Problem
- * Temperature Compensate
- * Thermal Shutdown

ORDERING INFORMATION

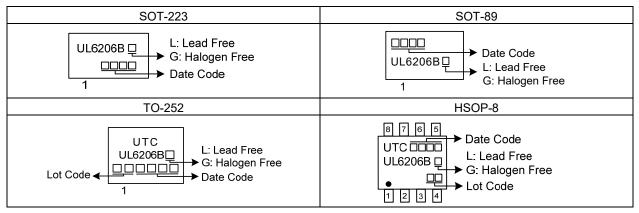
SOT-223	SOT-89
1 TO-252	HSOP-8

Ordering Number		Deekene	Dealing	
Lead Free	Halogen Free	Package	Packing	
UL6206BL-AA3-R	UL6206BG-AA3-R	SOT-223	Tape Reel	
UL6206BL-AB3-R	UL6206BG-AB3-R	SOT-89	Tape Reel	
UL6206BL-TN3-R	UL6206BG-TN3-R	TO-252	Tape Reel	
UL6206BL-SH2-R	UL6206BG-SH2-R	HSOP-8	Tape Reel	

UL6206BG-xx-AA3-R (1)Packing Type (2)Package Type (3)Output Voltage Cod (4)Green Package	 (1) R: Tape Reel (2) AA3: SOT-223, AB3: SOT-89, TN3: TO-252 SH2: HSOP-8 (3) xx: Refer to Marking Information (4) G: Halogen Free and Lead Free, L: Lead Free
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UL6206B

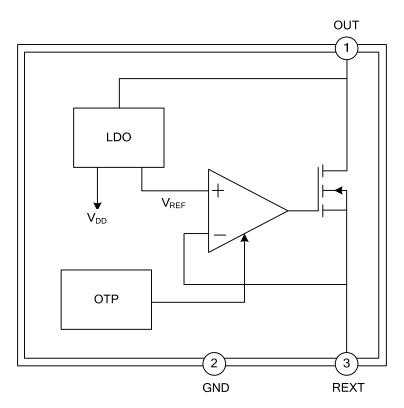
MARKING



■ PIN DESCRIPTION

PIN	NO.					
SOT-223 SOT-89 TO-252	HSOP-8	PIN NAME	DESCRIPTION			
1	7	OUT	Current Output Pin.			
2	1	GND	Ground.			
3	2	REXT	Output Current Setting Pin.			
-	3, 4, 5, 6, 8	NC	NC			

BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	RATINGS	UNIT
OUT Pin Voltage	V _{OUT}	-0.5 ~ 550	V
OUT Pin Current	Ι _{ουτ}	5 ~ 80	mA
Operating Junction Temperature	T _{OPT}	-40 ~ +150	°C
Storage Junction Temperature	T _{STG}	-50 ~ +150	°C

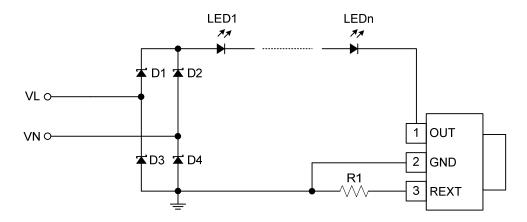
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
OUT Pin Voltage	Vout	I _{OUT} =30mA		8		V
OUT Pin Withstanding Voltage		I _{OUT} =0	550			V
Output Current	Ι _{ουτ}		5		80	mA
Quiescent Current	lq	V _{OUT} =10V REXT No Collection		0.15	0.3	mA
REXT Pin Voltage	V _{REXT}	V _{OUT} =10V		0.6		V
Output Current Error		Ι _{ουτ} =5~80mΑ		± 4		%
Temperature Compensate Point	T _{CP}			150		°C



TYPICAL APPLICATION CIRCUIT



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