

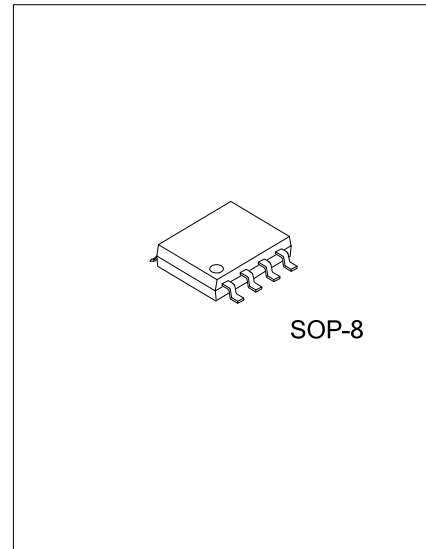


# UC34363

Preliminary

LINEAR INTEGRATED CIRCUIT

## CONSTANT VOLTAGE AND CONSTANT CURRENT CONTROLLER FOR BATTERY CHARGERS



### DESCRIPTION

The UTC **UC34363** is a switch controller for constant voltage, constant current (CV/CC) application. The device could be used for battery charge. UTC **UC34363** is used of SOP-8 packages. Additionally the UTC **UC34363** intergrated a internal compensation capacitor, so that the application is simplicial.

### FEATURES

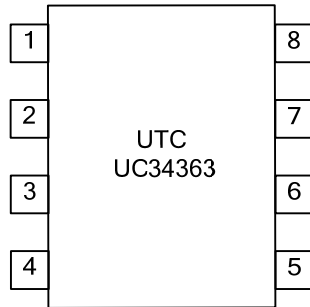
- \* CV/CC linear charge
- \* 3A maximum charge current
- \* PWM control Mode
- \* Available charge current
- \* Over Voltage protect ,Over Current Protect
- \* Enable Control function
- \* Very Low Power Dissipation in Standby Mode

### ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
UC34363L-S08-R	UC34363G-S08-R	SOP-8	Tape Reel
UC34363L-S08-T	UC34363G-S08-T	SOP-8	Tube

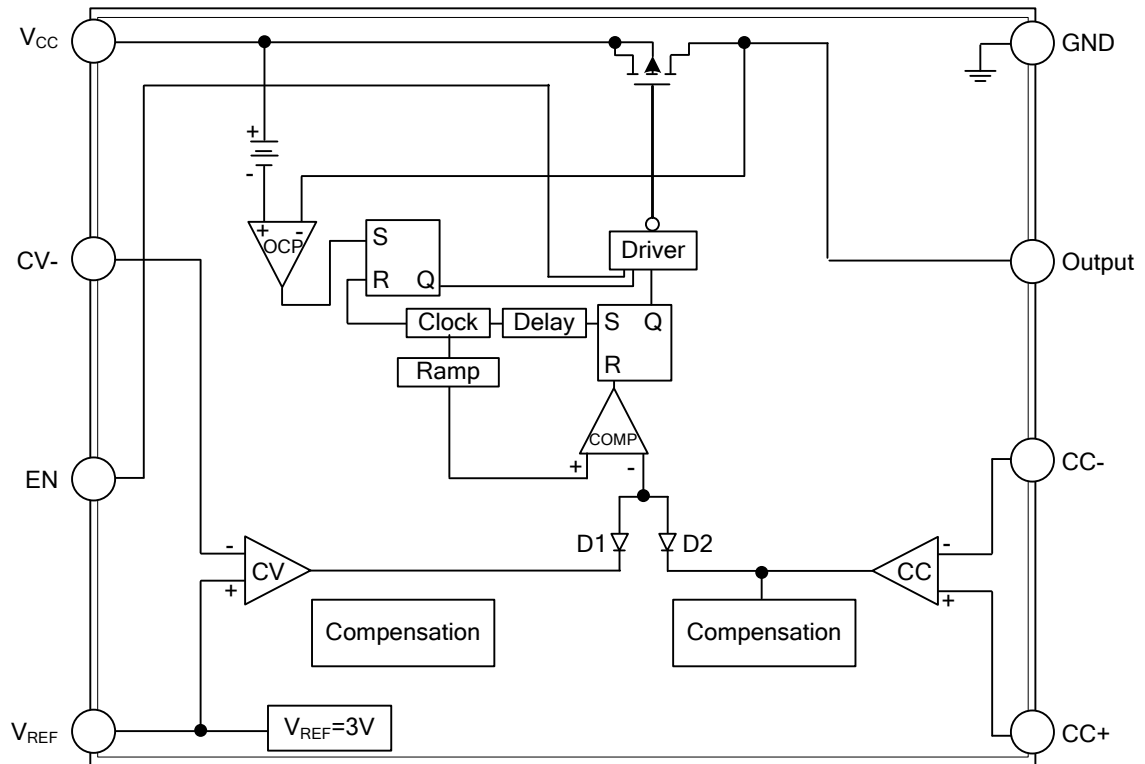
Note: xx: Output Voltage, refer to Marking Information.

<p>UC34363G-xx-S08-R</p>	<p>(1) R: Tape Reel, T: Tube  (2) S08: SOP-8  (3) xx: Refer to Marking Information  (4) G: Halogen Free, L: Lead Free</p>
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**■ PIN CONFIGURATION****■ PIN DESCRIPTION**

PIN NO.	PIN NAME	DESCRIPTION
1	V <sub>CC</sub>	Power Supply
2	CV-	Negative Input of the Voltage Amplifier
3	ENABLE	Enable Controlled ON/OFF for IC
4	VREF	3V external Voltage Reference
5	CC+	Positive Input of Current Amplifier
6	CC-	Negative Input of Current Amplifier
7	OUTPUT	Output
8	GND	Ground

## ■ BLOCK DIAGRAM



■ **ABSOLUTE MAXIMUM RATING**

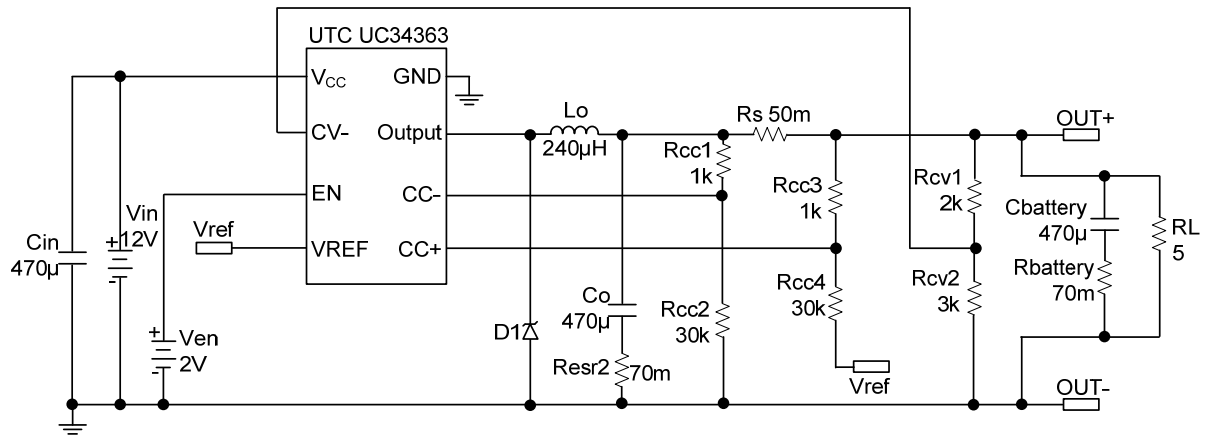
PARAMETER	SYMBOL	RATINGS	UNIT
Power Supply Voltage	$V_{CC}$	30	V
CC+ Voltage	$V_{CC+}$	10	V
CC- Voltage	$V_{CC-}$	10	V
CV- Voltage	$V_{CV-}$	10	V
Operating Junction Temperature	$T_J$	125	°C

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.

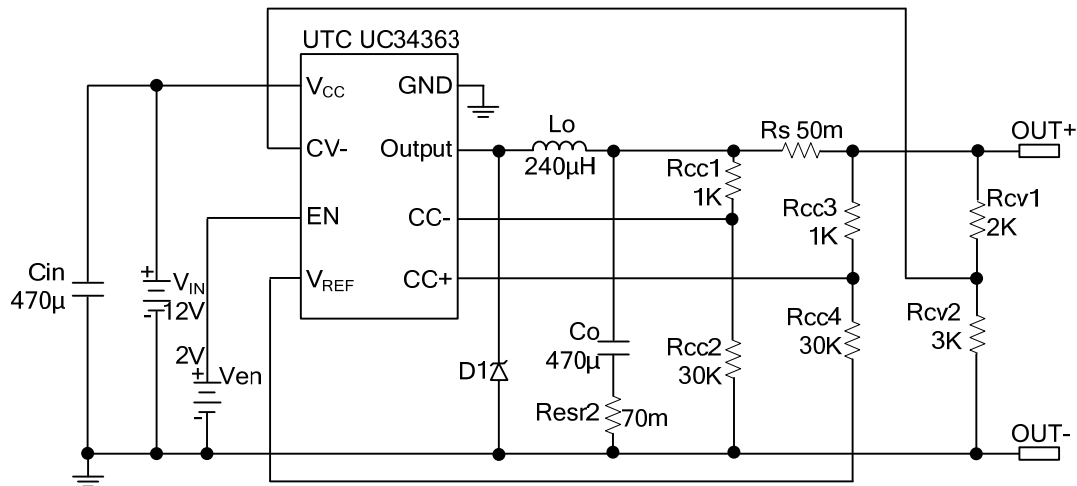
■ **ELECTRICAL CHARACTERISTICS** ( $V_{IN}=15V$ ,  $T_A=25^{\circ}C$ , Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
<b>Power Supply</b>						
Power Supply Voltage	$V_{CC}$		8		30	V
Standby Supply Current	$I_{standby}$	$V_{CC}=30V$		7	15	mA
<b>Osc</b>						
Oscillator Frequency	$F_{OSC}$			75		KHZ
<b>CC</b>						
Constant Current	CC	$R_s=50M\Omega$ , $R_{cc1}=R_{cc3}=1K$ , $R_{cc2}=R_{cc4}=30K$		2		A
<b>Enable</b>						
Enable Logic Input Leve	$V_{ON}$		2			V
	$V_{OFF}$				1.5	V
<b>VREF</b>						
Reference Input Voltage	$V_{REF}$	$I_{load}=5mA$		3.0		V
<b>Protect</b>						
Thermal Shutdown	$T_{OTP}$			150		°C

## ■ TEST CIRCUIT



## ■ TYPICAL APPLICATION CIRCUIT



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