

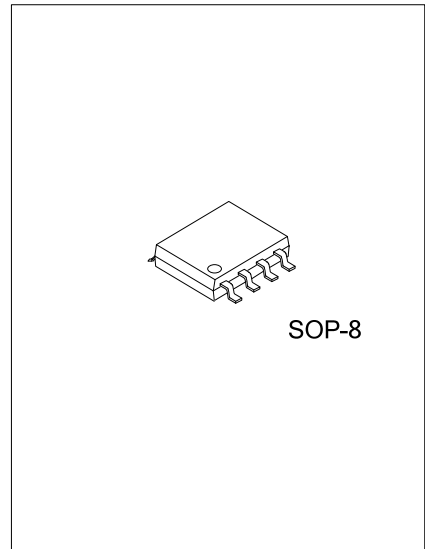


**UC34363**

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

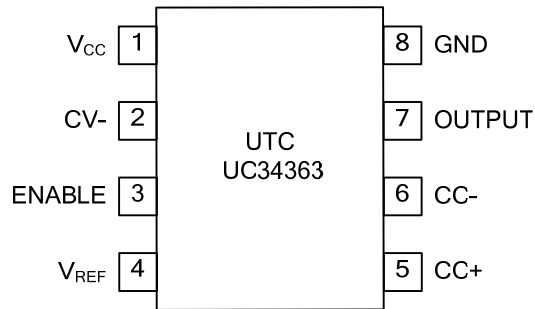
Ordering Number		Package	Packing
Lead Free	Halogen Free		
UC34363L-S08-R	UC34363G-S08-R	SOP-8	Tape Reel

<p>UC34363L-S08-R</p> <p>(1)Packing Type (2)Package Type (3)Lead Free</p>	<p>(1) R: Tape Reel (2) S08: SOP-8 (3) L: Lead Free, G: Halogen Free</p>
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■ MARKING INFORMATION

PACKAGE	MARKING
SOP-8	<p>8 7 6 5 → Date Code UTC □□□□ UC34363 □ → L: Lead Free           □ → G: Halogen Free ● □ □ → Lot Code 1 2 3 4</p>

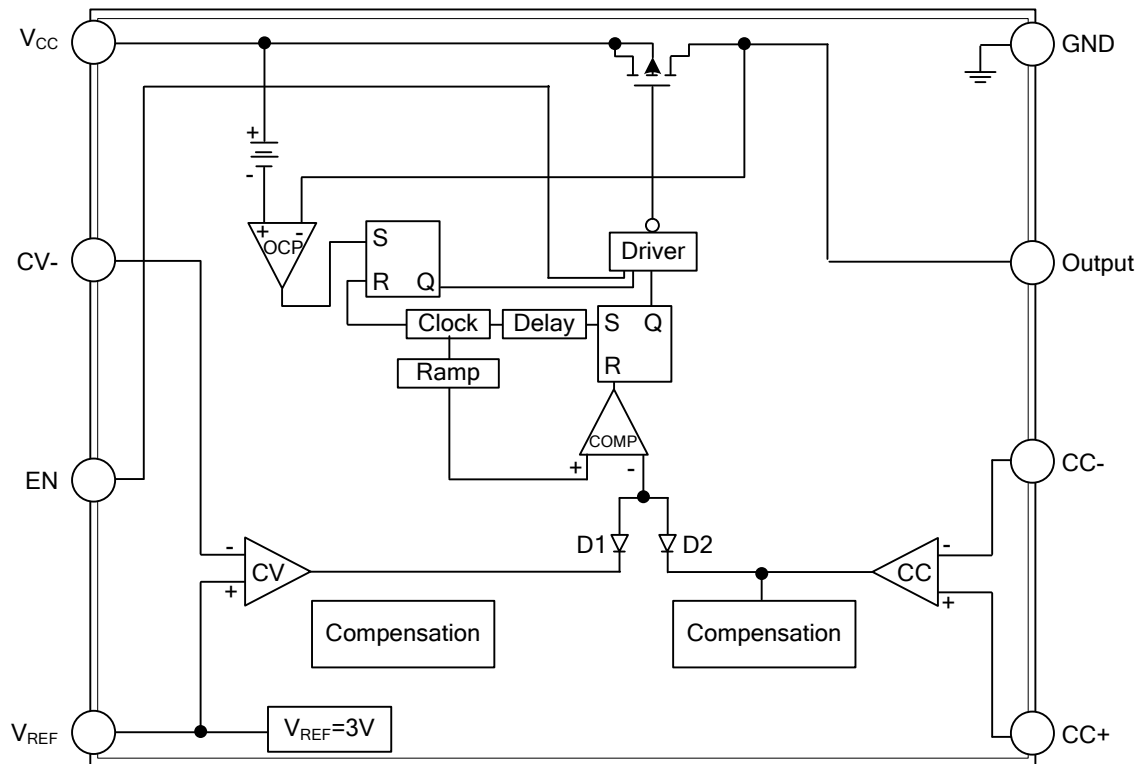
■ PIN CONFIGURATION



■ 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	V <sub>REF</sub>	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

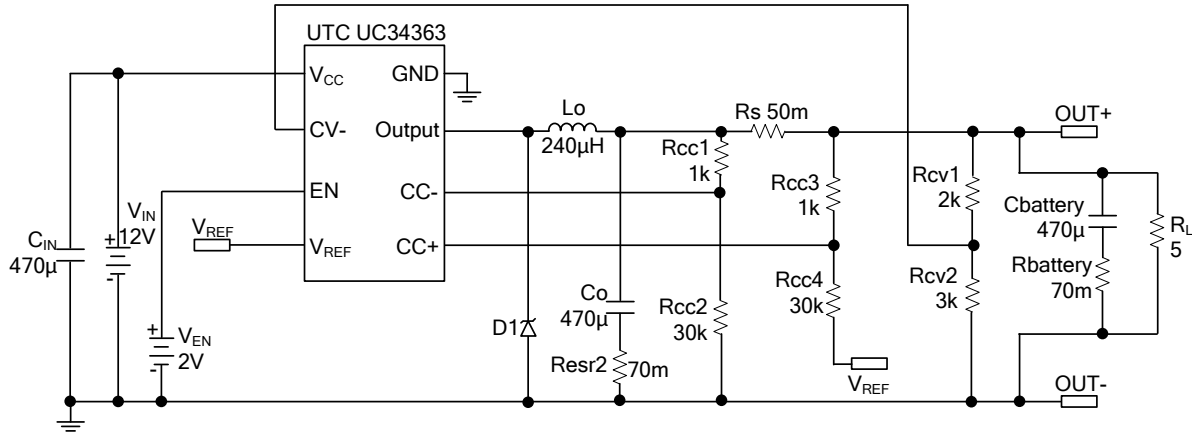
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

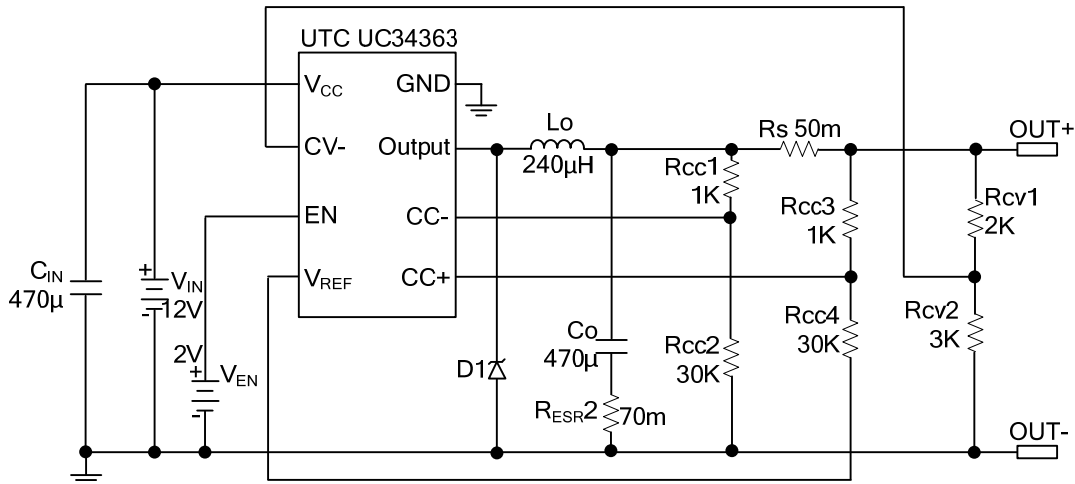
■ ELECTRICAL CHARACTERISTICS ( $V_{IN}=15V$ ,  $T_A=25^{\circ}C$ , Unless otherwise specified)

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 Level	$V_{ON}$		2			V
	$V_{OFF}$				1.5	V
<b><math>V_{REF}</math></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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