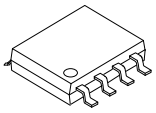
CONSTANT VOLTAGE AND CONSTANT CURRENT CONTROLLER FOR BATTERY CHARGERS



SOP-8

■ 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

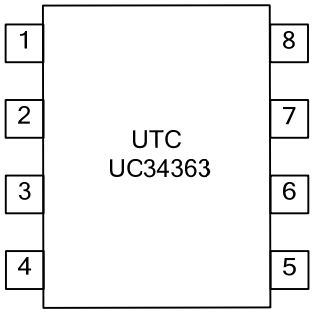
Note: xx: Output Voltage, refer to Marking Information.

UC34363G-xx-S08-R

(1)Packing Type
(2)Package Type
(3)Output Voltage Code
(4)Halogen Free

(1) R: Tape Reel, T: Tube
(2) S08: SOP-8
(3) xx: Refer to Marking Information
(4) G: Halogen Free, L: Lead Free

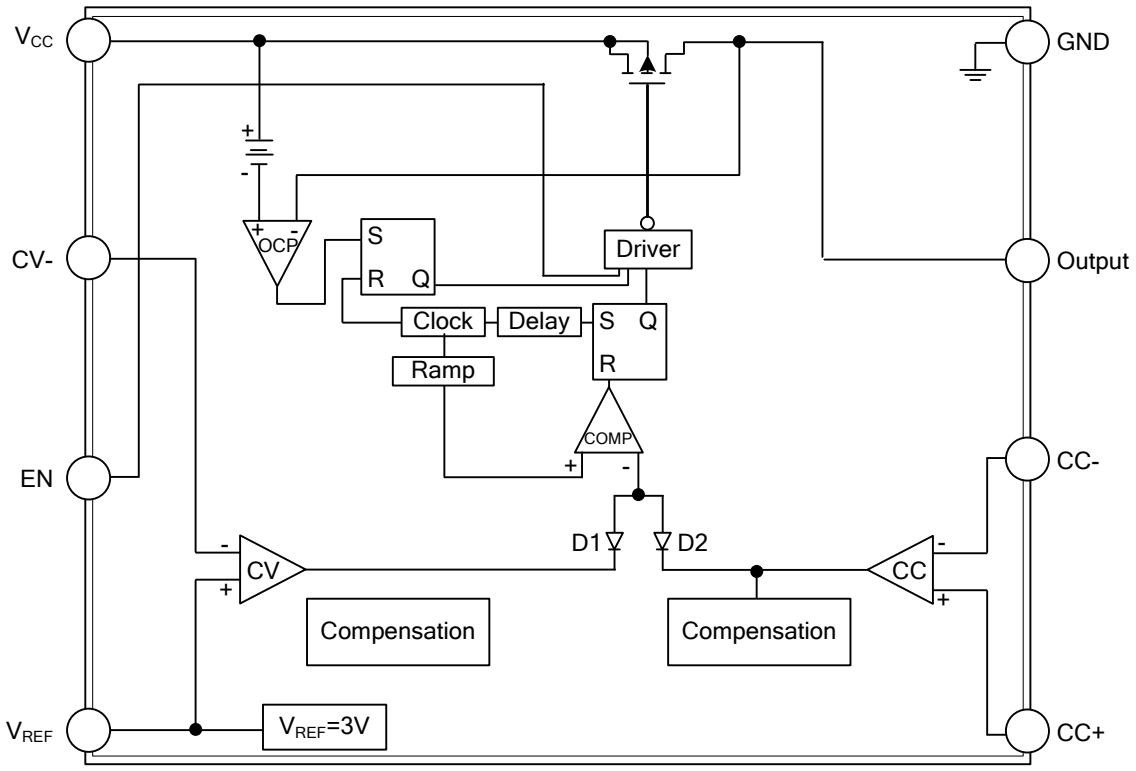
■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	V_{CC}	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

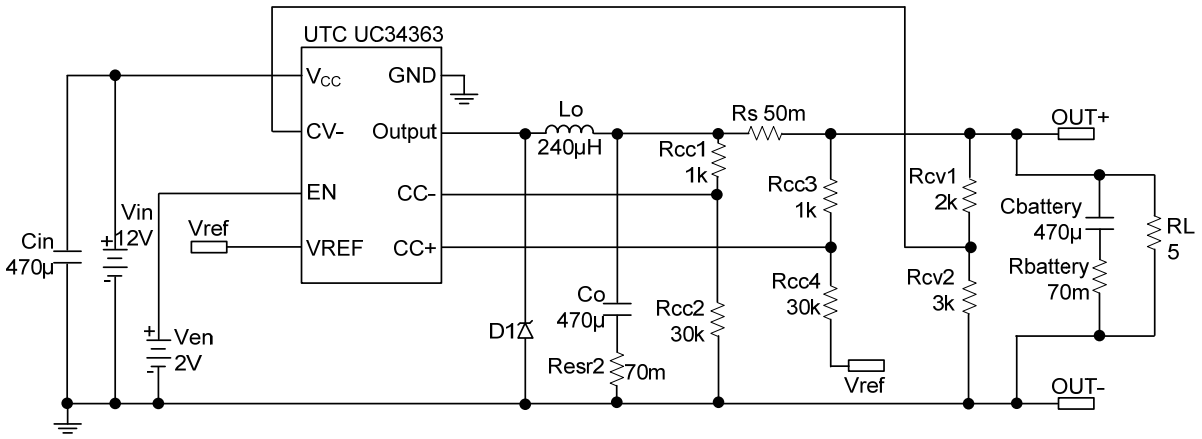
PARAMETER	SYMBOL	RATINGS	UNIT
Power Supply Voltage	V_{CC}	30	V
CC+ Voltage	V_{CC}+	10	V
CC- Voltage	V_{CC}-	10	V
CV- Voltage	V_{CV}-	10	V
Operating Junction Temperature	T_J	125	°C

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°C, Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Power Supply						
Power Supply Voltage	V_{CC}		8		30	V
Standby Supply Current	$I_{standby}$	V_{CC}= 30V		7	15	mA
Osc						
Oscillator Frequency	F_{OSC}			75		KHZ
CC						
Constant Current	CC	Rs=50MΩ, Rcc1=Rcc3=1K, Rcc2=Rcc4=30K		2		A
Enable						
Enable Logic Input Leve	V_{ON}		2			V
	V_{OFF}				1.5	V
VREF						
Reference Input Voltage	V_{REF}	Iload=5mA		3.0		V
Protect						
Thermal Shutdown	T_{OTP}			150		°C

■ TEST CIRCUIT



■ TYPICAL APPLICATION CIRCUIT