



CW574

LINEAR INTEGRATED CIRCUIT

33V COLOR TV VOLTAGE REGULATOR

DESCRIPTION

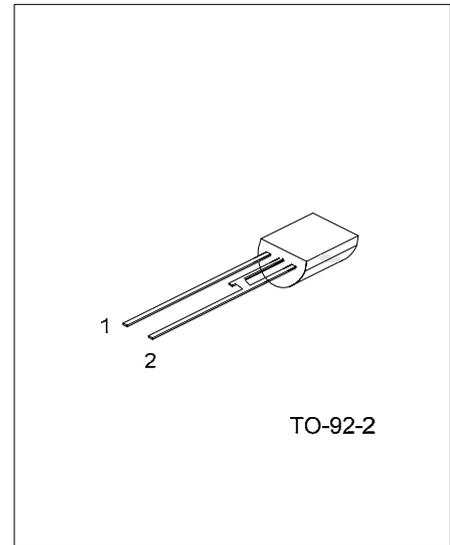
The UTC CW574 is a parallel voltage regulator which provides stable harmonious voltage for high frequency tuner head of color TV.

FEATURES

- * Low temperature coefficient
- * Low dynamic resister
- * Typical voltage: 33V

ORDERING INFORMATION

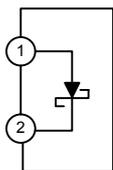
Ordering Number		Package	Packing
Normal	Lead Free Plating		
CW574-T90-K	CW574L-T90-K	TO-92-2	Bulk



*Pb-free plating product number: CW574L

<p>CW574L-T90-K</p> <p>(1)Packing Type (2)Package Type (3)Lead Plating</p>	<p>(1) K: Bulk (2) T90: TO-92-2 (3) L: Lead Free Plating, Blank: Pb/Sn</p>
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BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

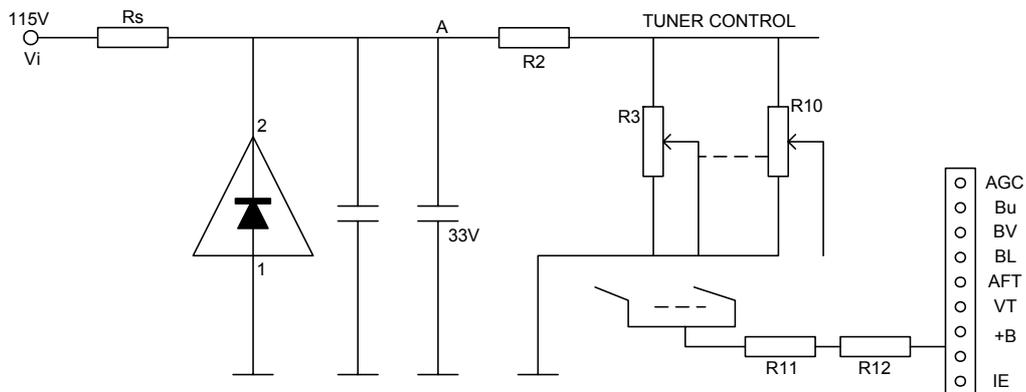
PARAMETER	SYMBOL	RATINGS	UNIT
Stable Current	I _Z	10	mA
Power Dissipation	P _D	200	mW
Operating Temperature	T _{OPR}	-20 ~ +75	°C
Storage Temperature	T _{STG}	-40 ~ +125	°C

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 (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Stable Voltage	V _Z	I _Z =5mA	31	33	35	V
Dynamic Resister	R _Z	I _Z =5mA, I _{AC} =0.5mA, f=1kHz		10	25	Ω
Stable Current And Temperature Characteristics	ΔV _Z	I _Z =5mA, Ta= -20~75°C	-1.0		1.0	mV/°C

APPLICATION CIRCUIT



The UTC CW574 is a parallel voltage regulator which provides stable harmonious voltage for high frequency tuner head of color TV.

The main power 115V goes through Rs resistor to position 2 of UTC CW574 then the position A with 33V provides stable voltage for control circuit of high frequency tuner. The circuit from R3 to R10 is potential meter for tuning, according to different channels to change contact positions; to provide corresponding voltage to tuner; and to control the capacity of varicap diode in order to have high frequency tuner into proper channel.

The voltage range of UTC CW574 is required to cover necessary frequency range, and main issue of UTC CW574 is its reliable voltage stability which avoids unexpected frequency offset; therefore, the circuit of UTC CW574 contains temperature compensation to have lowermost temperature coefficient.

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