



CW574

LINEAR INTEGRATED CIRCUIT

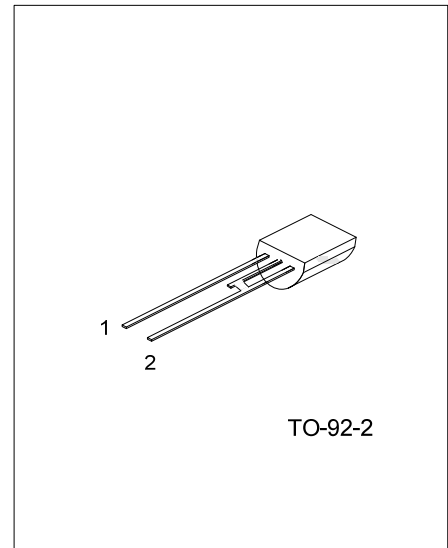
33V COLOR TV VOLTAGE REGULATOR

■ 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

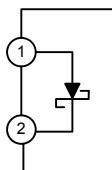


■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
CW574L-T90-B	CW574G-T90-B	TO-92-2	Tape Box
CW574L-T90-K	CW574G-T90-K	TO-92-2	Bulk
CW574L-T90-R	CW574G-T90-R	TO-92-2	Tape Reel

CW574L-T90-K (1)Packing Type (2)Package Type (3)Lead Free	(1) B: Tape Box, K: Bulk, R: Tape Reel (2) T90: TO-92-2 (3) G: Halogen Free, L: Lead Free
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■ BLOCK DIAGRAM



■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	RATINGS	UNIT
Stable Current	I_Z	10	mA
Power Dissipation	P_D	200	mW
Operating Temperature	T_{OPR}	-20 ~ +75	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-40 ~ +125	$^{\circ}\text{C}$

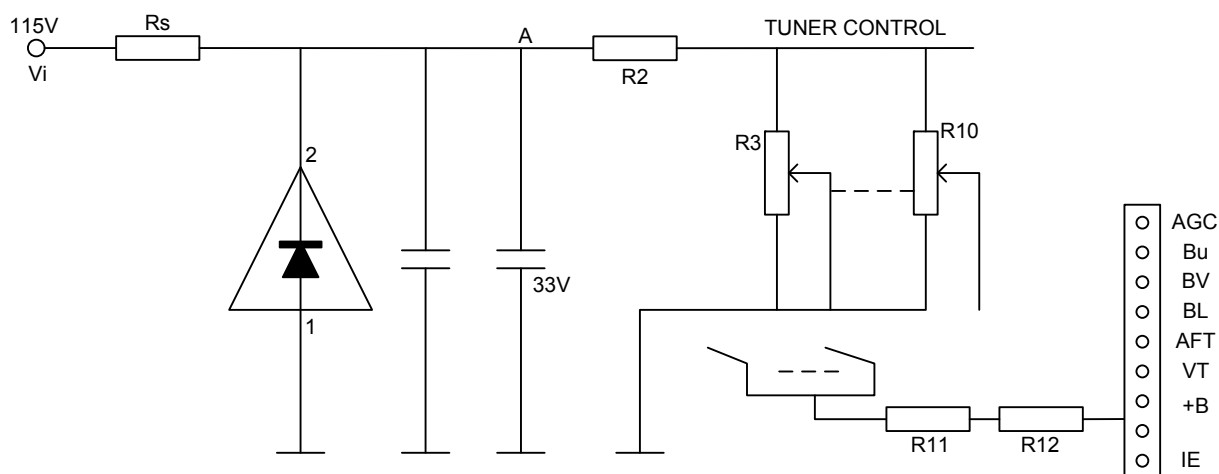
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

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

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Stable Voltage	V_Z	$I_Z=5\text{mA}$	31	33	35	V
Dynamic Resister	R_Z	$I_Z=5\text{mA}, I_{AC}=0.5\text{mA}, f=1\text{kHz}$		10	25	Ω
Stable Current and Temperature Characteristics	ΔV_Z	$I_Z=5\text{mA}, T_A= -20\sim 75^{\circ}\text{C}$	-1.0		1.0	$\text{mV}/^{\circ}\text{C}$

■ 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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