



UNISONIC TECHNOLOGIES CO., LTD

T78040

LINEAR INTEGRATED CIRCUIT

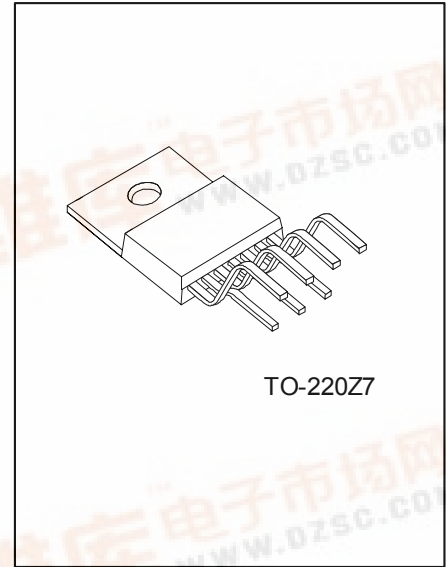
VERTICAL DEFLECTION OUTPUT CIRCUIT

DESCRIPTION

The UTC **T78041** is a monolithic integrated circuit and designed for use in high-definition TV and CRT monitors. It is intended to directly drive the deflection coil. Besides, the T78040 offers a maximum deflection current of 1.8A peak to peak to suitable for small to medium diameter CRTs.

FEATURES

- * Deflection current can be 1.8A peak value
- * Deflection voltage up to 70V
- * Flyback generator
- * Thermal protection circuit
- * Low cross-over distortion
- * Supports DC Coupling



TO-220Z7

*Pb-free plating product number: T78040L

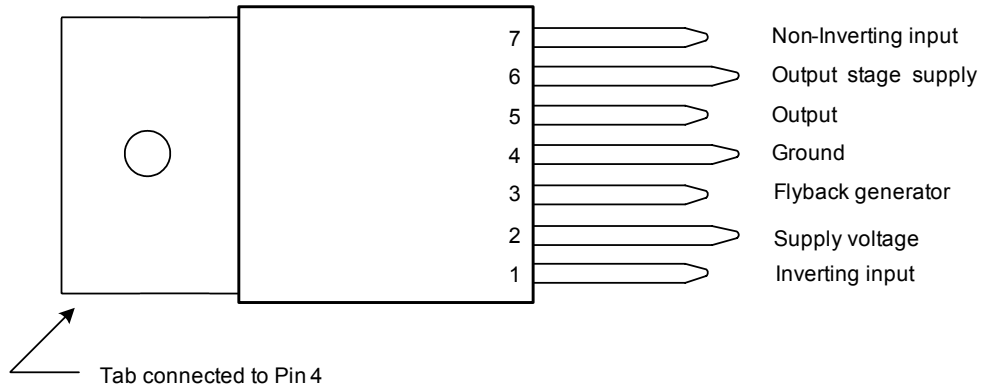
ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
T78040-TB7-T	T78040L-TB7-T	TO-220Z7	Tube

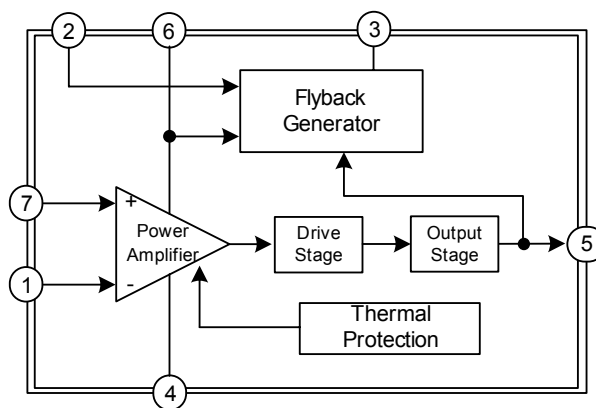
<p>T78040L-TB7-T</p> <p>(1)Packing Type (2)Package Type (3)Lead Plating</p>	<p>(1) T: Tube (2) TB7: TO-220Z7 (3) Lead Free Plating, Blank: Pb/Sn</p>
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■ PIN CONFIGURATIONS



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (Ta= 25)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage (pin 2 to Pin4)	V _{CC2}	34	V
Output Peak Power Supply Voltage (Pin 5 to Pin 4)	V _{CC6}	70	V
Output Peak Current	I _{5MAX}	-1.5 ~ +1.5	A
Power Dissipation	P _D	9	W
Junction Temperature	T _J	150	
Operating Temperature	T _{OPR}	-20 ~ +85	
Storage Temperature	T _{STG}	-40 ~ +150	

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.

■ THERMAL DATA

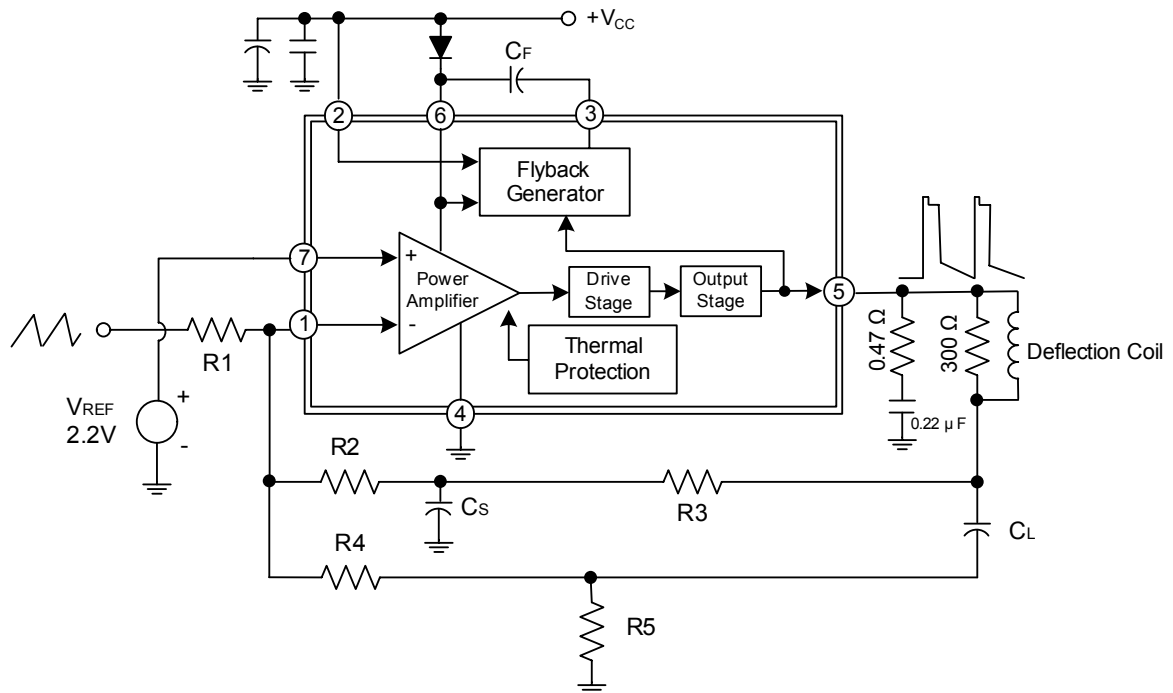
PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction-Case	θ_{JC}	4.0	°C/W

■ ELECTRICAL CHARACTERISTICS (Ta = 25 , V_{CC} = 24V, unless otherwise specified)

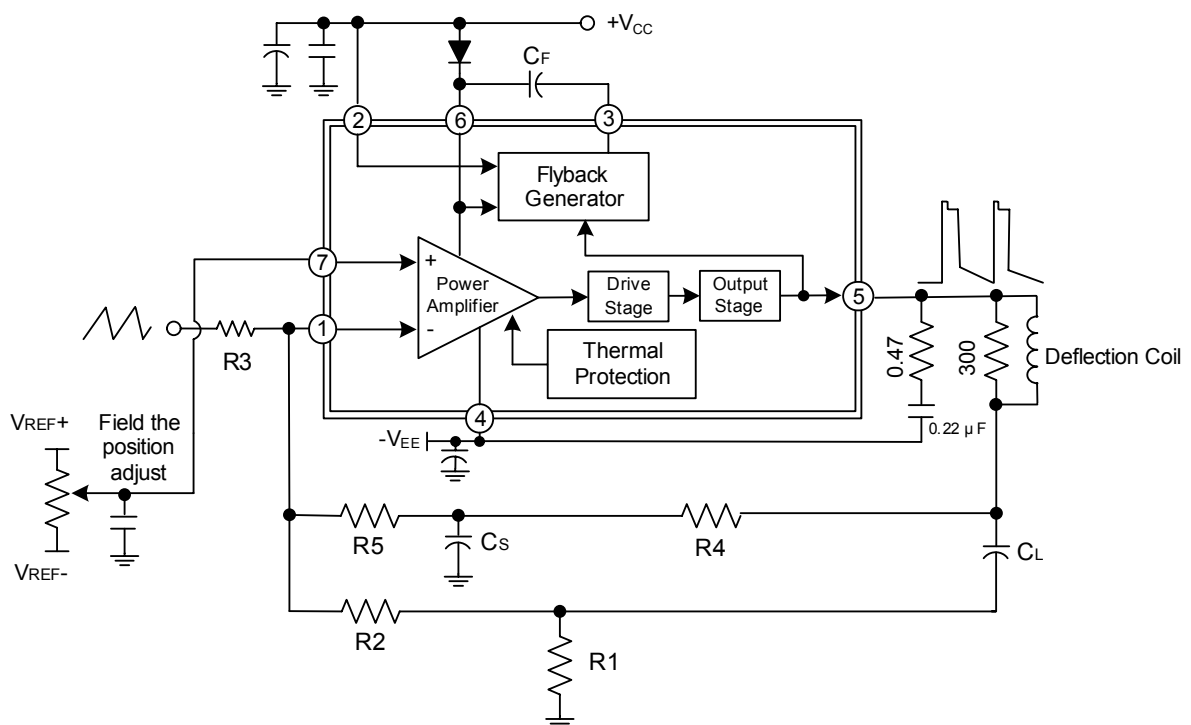
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V _{CC}		16	24	33	V
Output Saturated Voltage to GND	V _{S5-4}	I ₅ =0.9A			1.3	V
Output Saturated Voltage to Supply	V _{S5-6}	I ₅ =-0.9A			3.2	V
Saturation Voltage on Pin 3	V _{S3-4}	I ₃ = 20mA			1.8	V
Saturation Voltage to Pin 3 (2nd part of flyback)	V _{S3-2}	I ₃ = -0.9A			3.0	V
Output Middle Point Voltage	V _{O(MID)}		11	12	13	V
Quiescent Current	I _Q		35		65	mA
Recommend Biggest Deflect Current	I _{5P-P}				1.8	A

APPLICATION CIRCUITS

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)



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