



T78040

LINEAR INTEGRATED CIRCUIT

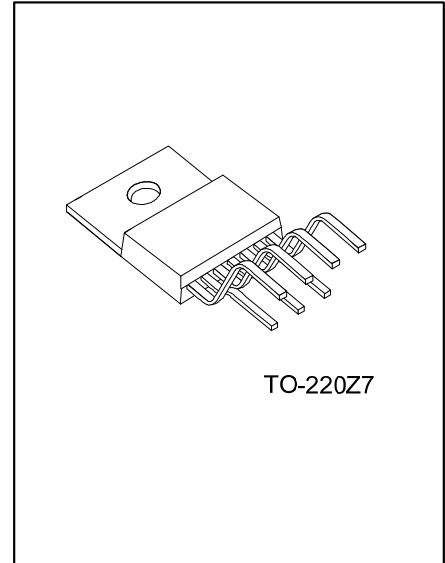
VERTICAL DEFLECTION OUTPUT CIRCUIT

■ DESCRIPTION

The UTC **T78040** 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

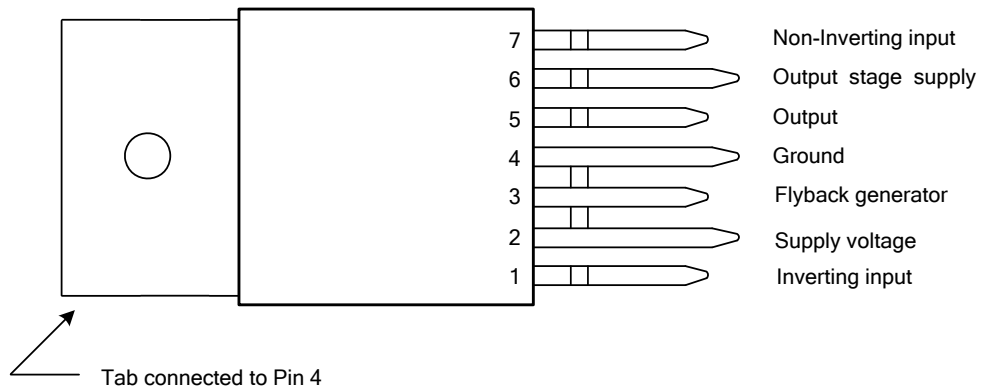


■ ORDERING INFORMATION

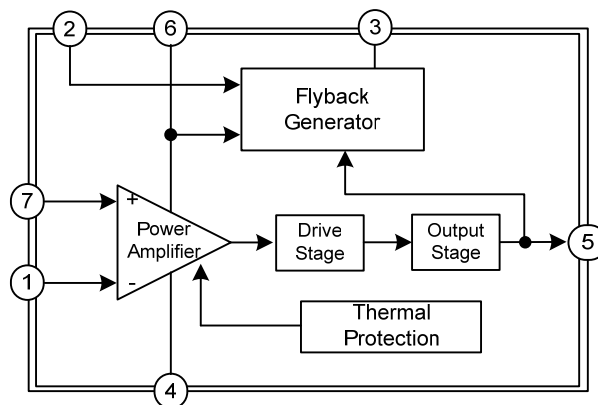
Ordering Number		Package	Packing
Lead Free	Halogen Free		
T78040L-TB7-T	T78040G-TB7-T	TO-220Z7	Tube

T78040L-TB7-T (1)Packing Type (2)Package Type (3)Lead Free	(1) T: Tube (2) TB7: TO-220Z7 (3) G: Halogen Free, L: Lead Free
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PIN CONFIGURATIONS



BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

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	°C
Operating Temperature	T _{OPR}	-20 ~ +85	°C
Storage Temperature	T _{STG}	-40 ~ +150	°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.

■ THERMAL DATA

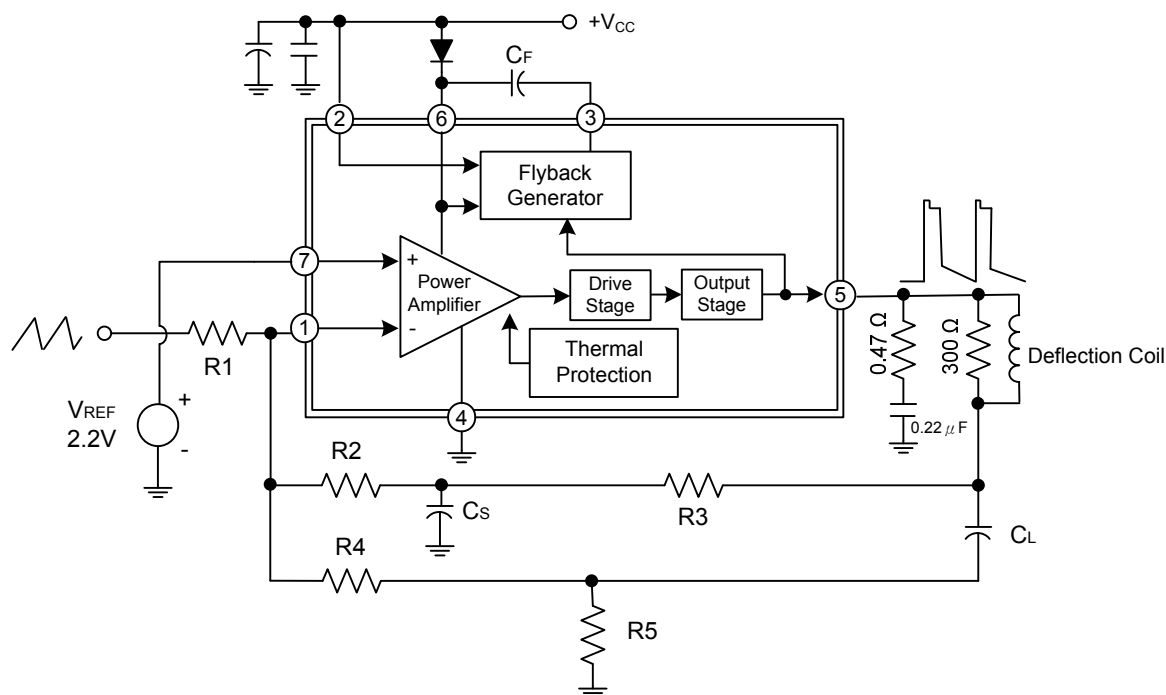
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ _{JC}	4.0	°C/W

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

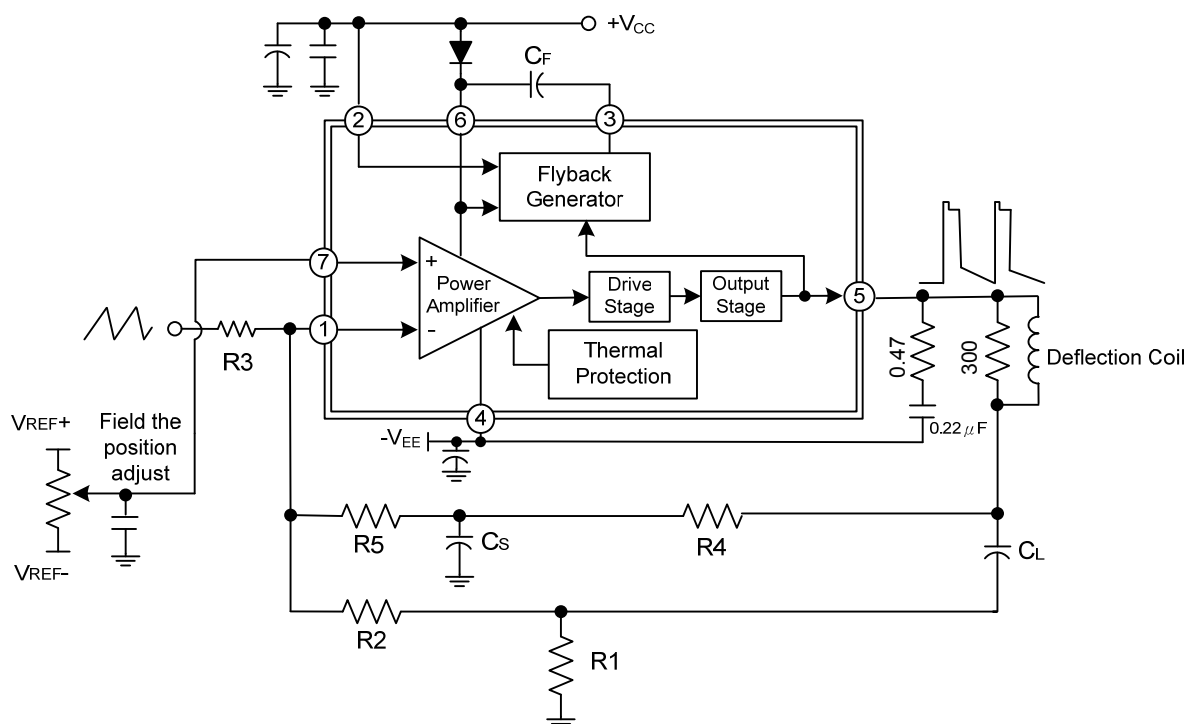
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V _{CC}		16	24	33	V
Output Saturated Voltage to GND	V _{S5-4}	I ₅ =0.9A			1.3	V
Output Saturated Voltage to Supply	V _{S5-6}	I ₅ =-0.9A			3.2	V
Saturation Voltage on Pin 3	V _{S3-4}	I ₃ = 20mA			1.8	V
Saturation Voltage to Pin 3 (2nd part 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		20		45	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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