



## T78040

## LINEAR INTEGRATED CIRCUIT

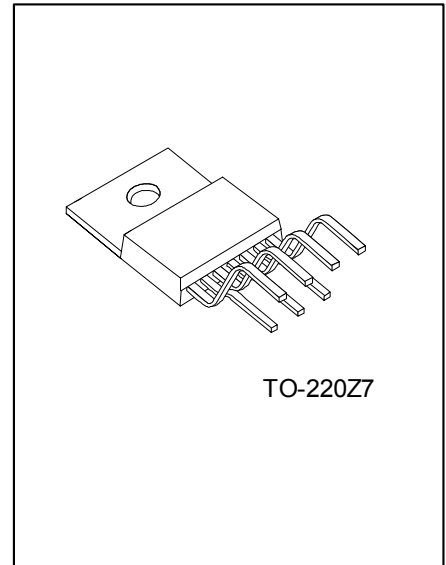
### VERTICAL DEFLECTION OUTPUT CIRCUIT

#### 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

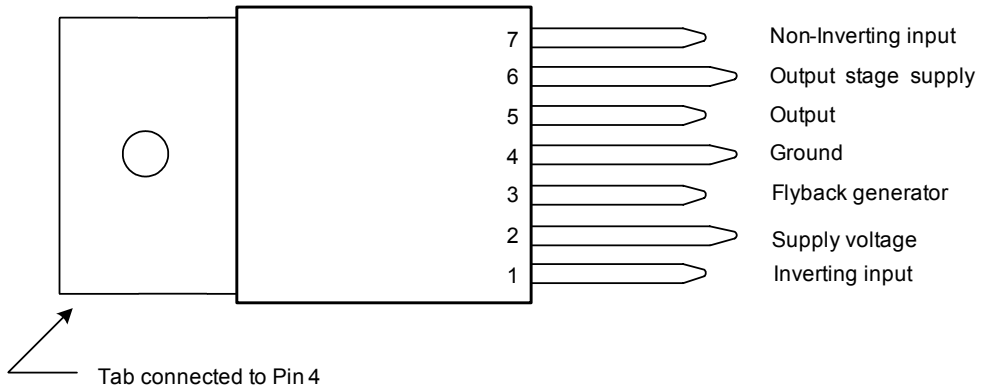
\*Pb-free plating product number: T78040L

#### ORDERING INFORMATION

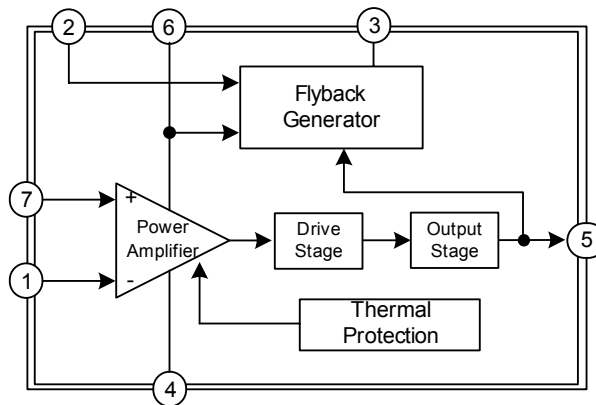
Order Number		Package	Packing
Normal	Lead Free Plating		
T78040-TB7-T	T78040L-TB7-T	TO-220Z7	Tube

<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 <sub>CC2</sub>	34	V
Output Peak Power Supply Voltage (Pin 5 to Pin 4)	V <sub>CC6</sub>	70	V
Output Peak Current	I <sub>5MAX</sub>	-1.5 ~ +1.5	A
Power Dissipation	P <sub>D</sub>	9	W
Junction Temperature	T <sub>J</sub>	150	
Operating Temperature	T <sub>OPR</sub>	-20 ~ +85	
Storage Temperature	T <sub>STG</sub>	-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

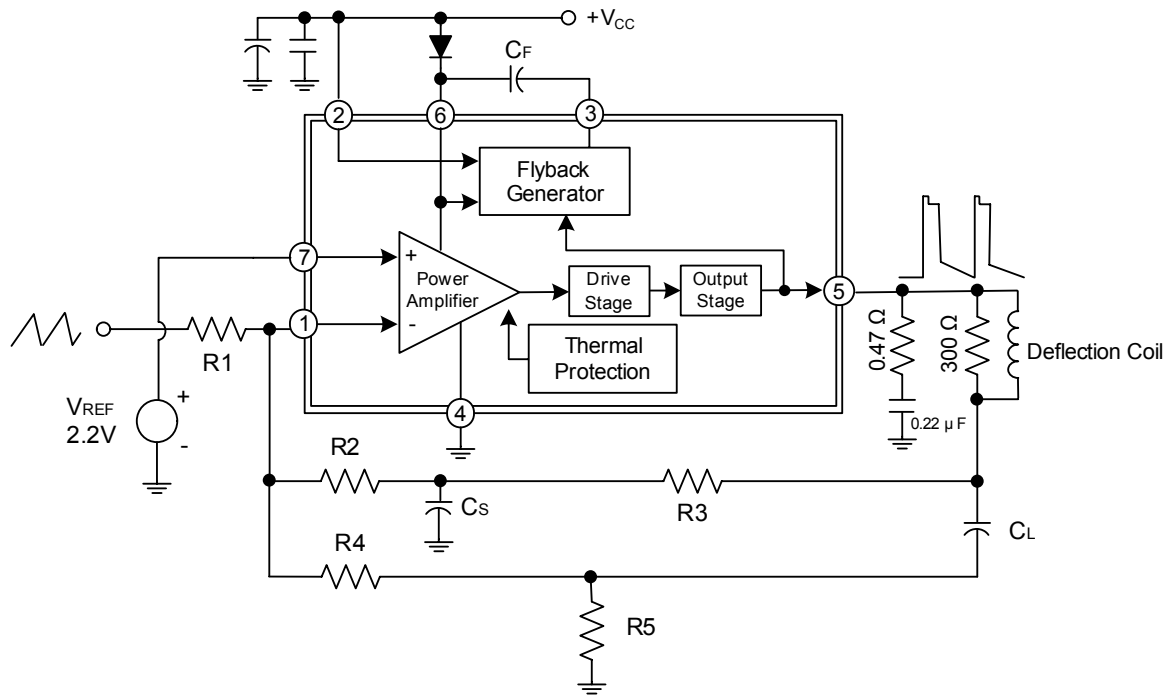
PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction-Case	$\theta_{JC}$	4.0	°C/W

■ ELECTRICAL CHARACTERISTICS (Ta = 25 , V<sub>CC</sub> = 24V, unless otherwise specified)

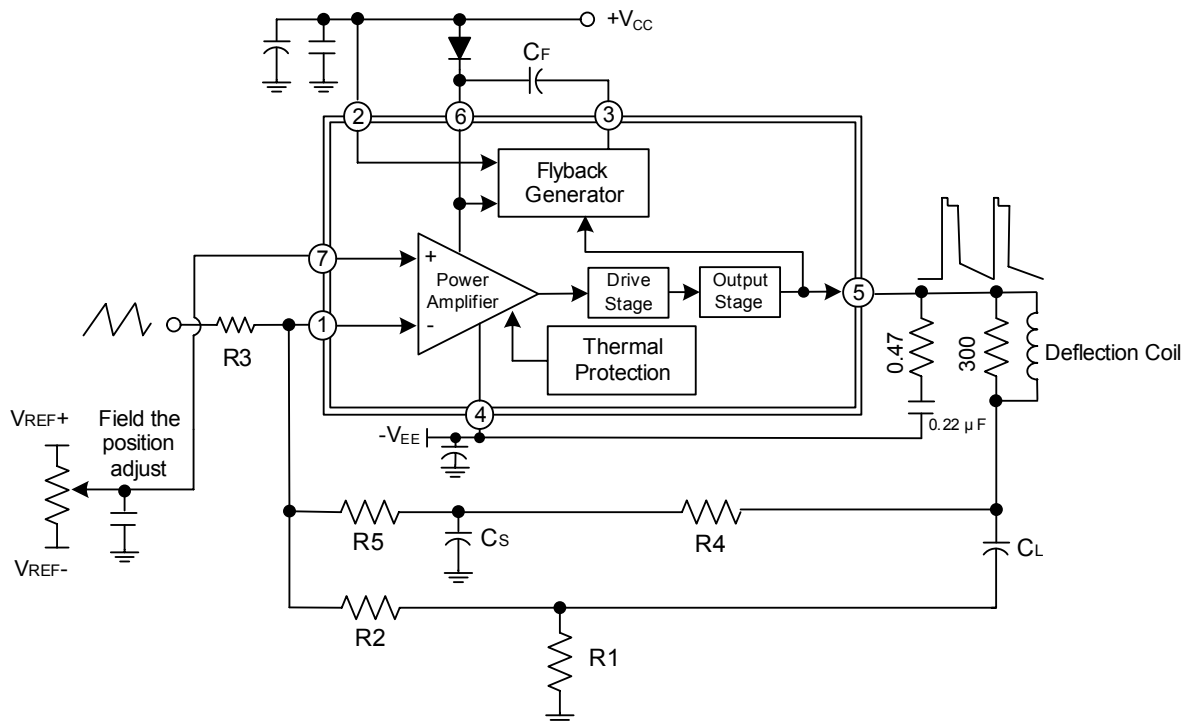
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V <sub>CC</sub>		16	24	33	V
Output Saturated Voltage to GND	V <sub>S5-4</sub>	I <sub>5</sub> =0.9A			1.3	V
Output Saturated Voltage to Supply	V <sub>S5-6</sub>	I <sub>5</sub> =-0.9A			3.2	V
Saturation Voltage on Pin 3	V <sub>S3-4</sub>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

■ APPLICATION CIRCUITS

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)



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