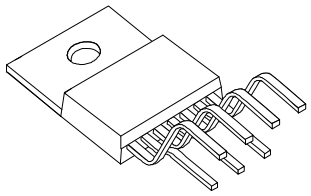
VERTICAL DEFLECTION OUTPUT CIRCUIT



TO-220Z7

■ 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

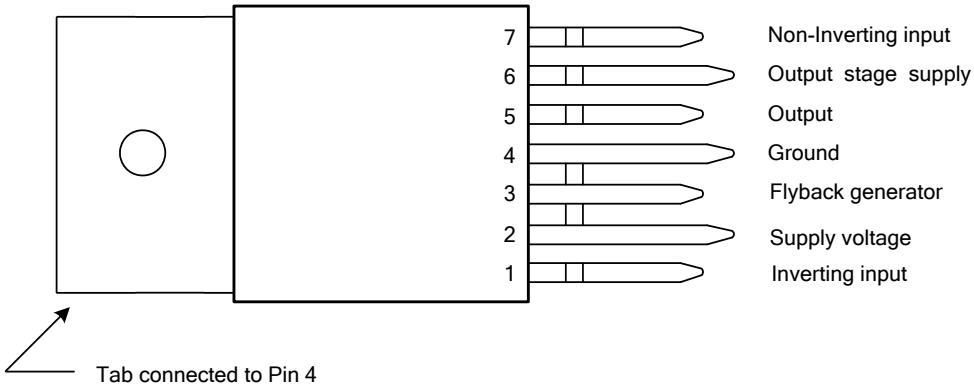
* Deflection current can be 1.8A peak value
* Deflection voltage up to 70V
* Flyback generator
* Thermal protection circuit
* Low cross-over distortion
* Supports DC Coupling

■ ORDERING INFORMATION

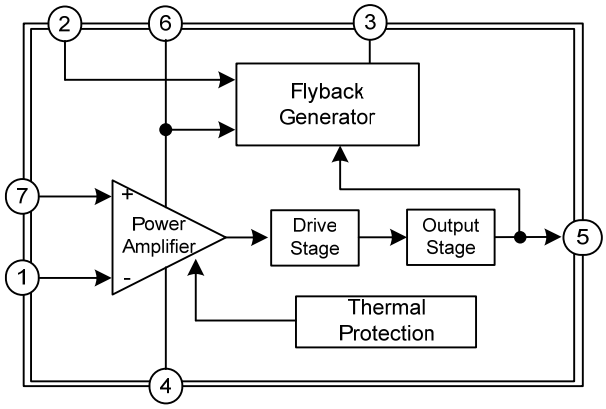
Ordering Number		Package	Packing
Lead Free	Halogen Free		
T78040L-TB7-T	T78040G-TB7-T	TO-220Z7	Tube

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

■ PIN CONFIGURATIONS



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS (T_A= 25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage (pin 2 to Pin4)	$V_{CC}2$	34	V
Output Peak Power Supply Voltage (Pin 5 to Pin 4)	$V_{CC}6$	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.

■ THERAML DATA

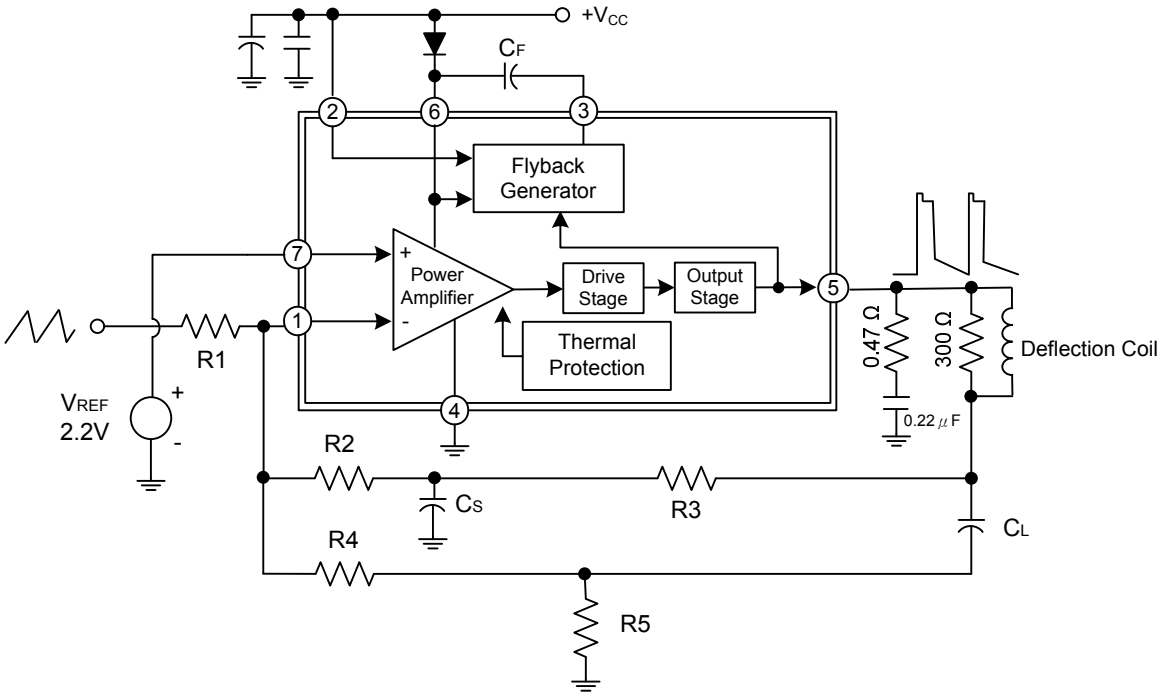
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	4.0	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A = 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		20		45	mA
Recommend Biggest Deflect Current	$I5_{P-P}$				1.8	A

■ APPLICATION CIRCUITS

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)