



T78041

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 T78041 offers a maximum deflection current of 2.2A peak to peak to suitable for large diameter CRTs.

FEATURES

- * Deflection current can be 2.2A peak value
- * Deflection voltage up to 70V
- * Flyback Generator
- * Thermal Protection Circuit
- * Low cross-over distortion
- * Supports DC Coupling

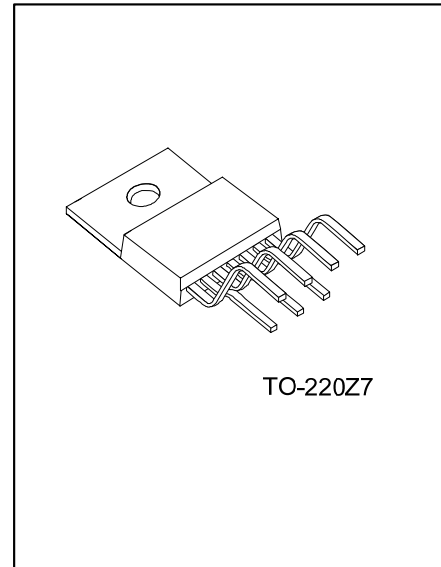
APPLICATIONS

- * Vertical deflection for monitors and TVs

ORDERING INFORMATION

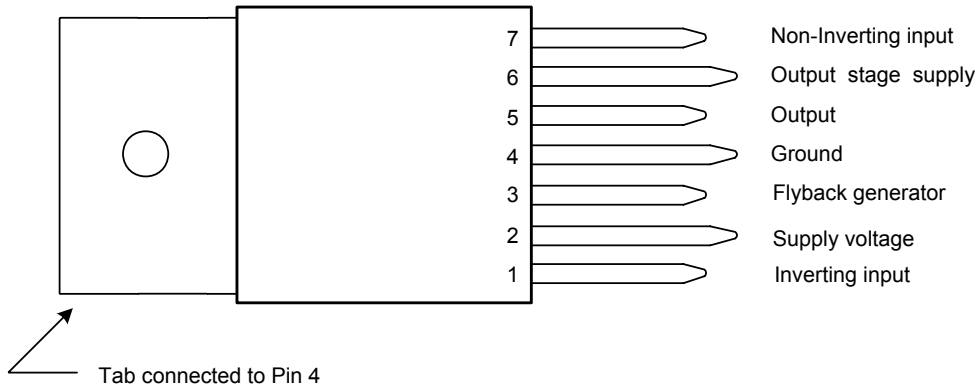
Order Number		Package	Packing
Normal	Lead Free Plating		
T78041-TB7-T	T78041L-TB7-T	TO-220Z7	Tube

<p>T78041L-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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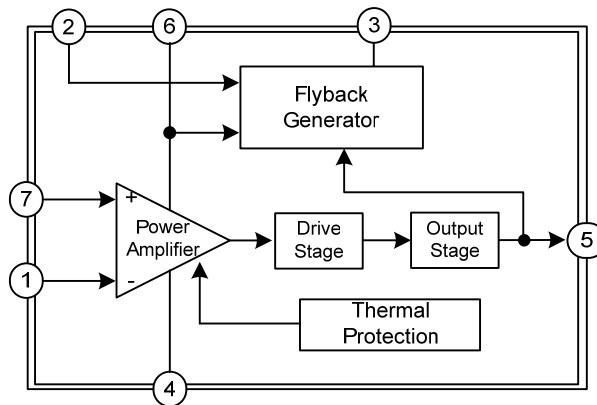


*Pb-free plating product number: T78041L

■ PIN CONFIGURATIONS



■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage (pin 2 to Pin4)	V _{CC2}	34	V
Output Supply Voltage (pin 6 to Pin4)	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.

■ THERAML DATA

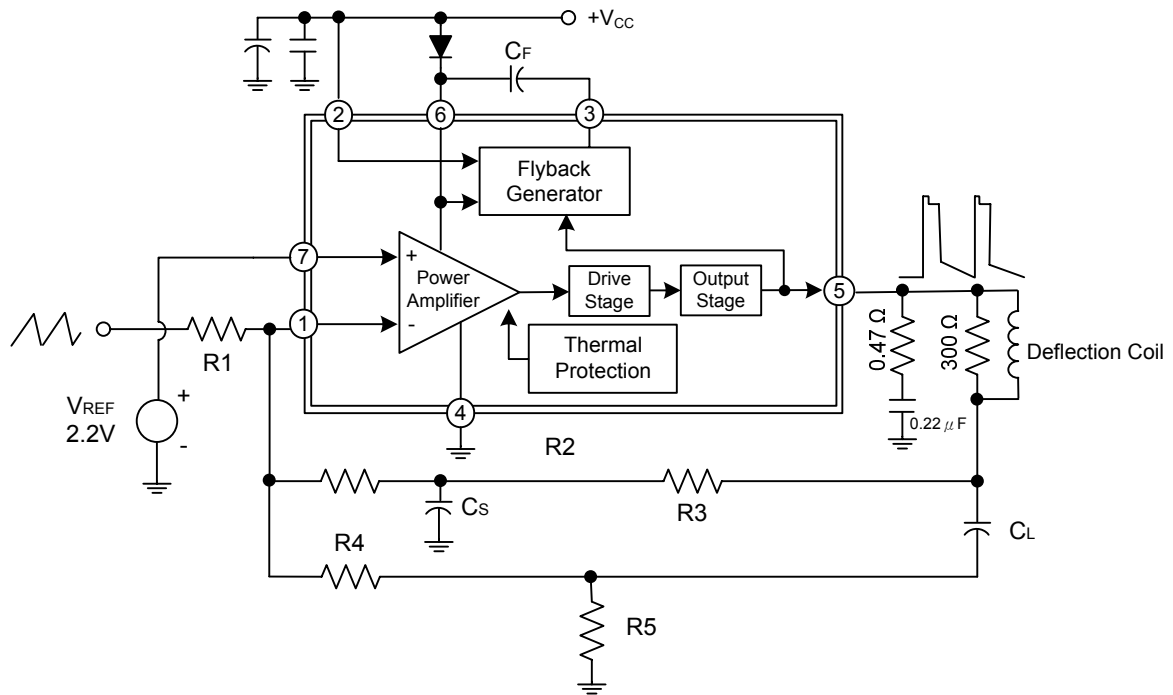
PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Resistance Junction-Case	θ_{JC}	3.0	°C/W

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

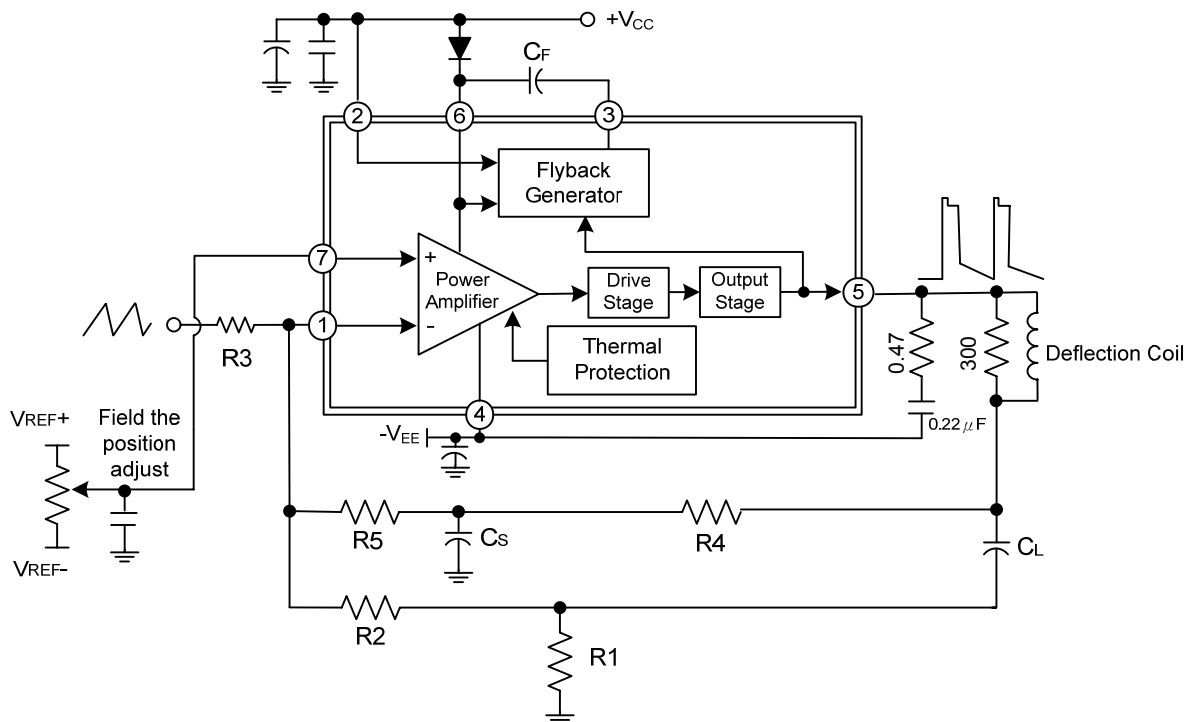
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V _{CC}		16	24	33	V
Quiescent Current	I _Q		35	-	65	mA
Recommend Biggest Deflect Current	I _{5P-P}				2.2	A
Output Saturated Voltage to GND	V _{5L}	I ₅ =1.1A			1.5	V
Output Saturated Voltage to Supply	V _{5H}	I ₅ =-1.1A			3.5	V
Pin 3 Saturation Voltage to GND	V _{3L}	I ₃ =20mA			1.8	V
Pin 3 Saturation Voltage to GND (Return to Sweep the Second Part)	V ₃₍₂₎	I ₃ =-1.1A			3.2	V
Output Middle Point Voltage	V _{O(MID)}		11	12	13	V
Thermal Shutdown Temperature				140		°C

APPLICATION CIRCUIT

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)



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