

T78040

LINEAR INTEGRATED CIRCUIT

VERTICAL DEFLECTION OUTPUT CIRCUIT

DESCRIPTION

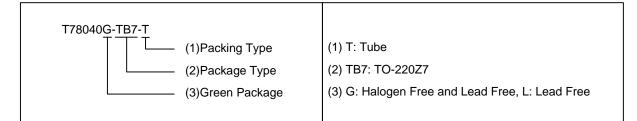
The UTC **T78040** is a monolithic integrated circuit and designed for use in high-definition TV and CRT monitors. It is intended to directly drive the deflection coil. Besides, the T78040 offers a maximum deflection current of 1.8A peak to peak to suitable for small to medium diameter CRTs.

FEATURES

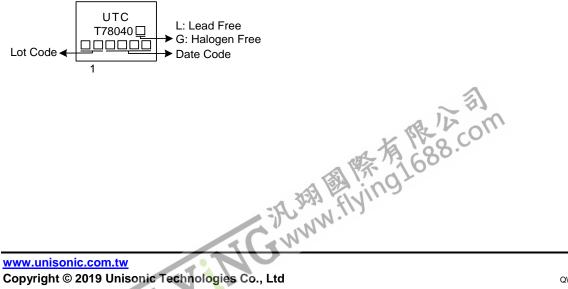
- * Deflection current can be 1.8A peak value
- * Deflection voltage up to 70V
- * Flyback generator
- * Thermal protection circuit
- * Low cross-over distortion
- * Supports DC Coupling

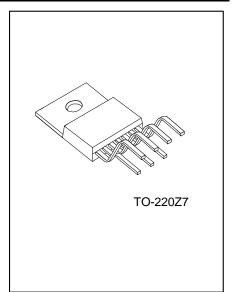
ORDERING INFORMATION

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



MARKING

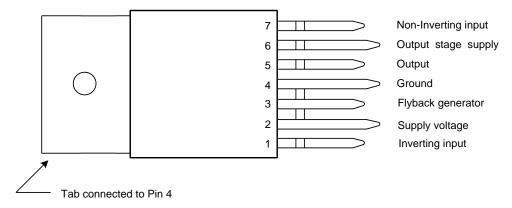




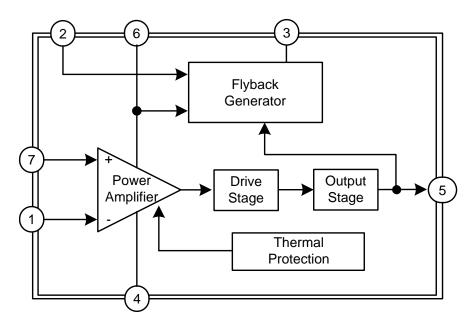
T78040

LINEAR INTEGRATED CIRCUIT

■ PIN CONFIGURATIONS



BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATINGS (T_A= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage (pin 2 to Pin4)	V _{cc} 2	2 34	
Output Peak Power Supply Voltage (Pin 5 to Pin 4)	5 to Pin 4) V _{CC} 6 70		V
Output Peak Current	I _{5MAX}	I _{5MAX} -1.5 ~ +1.5	
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	
Junction to Case	θ _{JC}	4.0	°C/W	

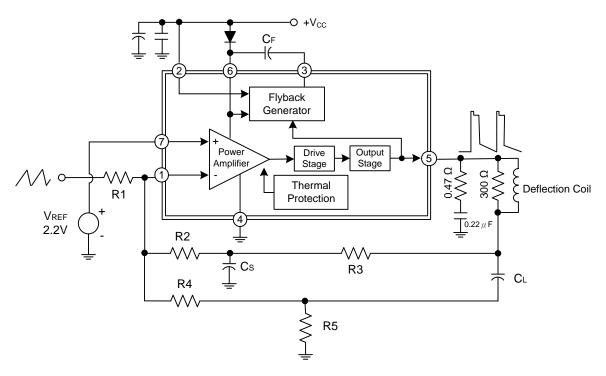
■ ELECTRICAL CHARACTERISTICS (T_A = 25°C, V_{CC} = 24V, unless otherwise specified)

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	lq		20		45	mA
Recommend Biggest Deflect Current	I5 _{Р-Р}				1.8	Α

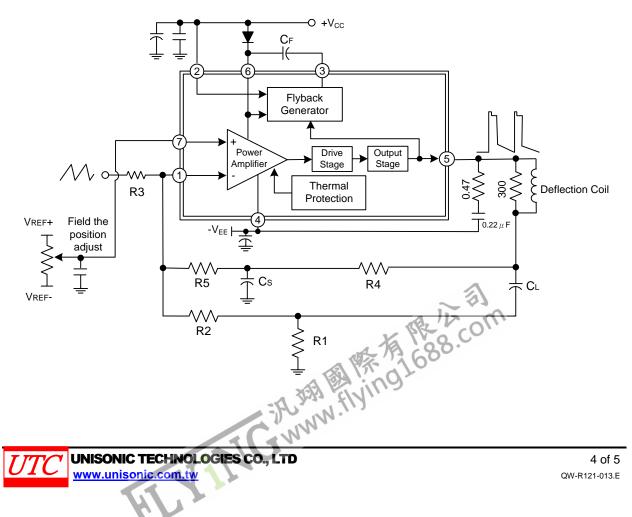


■ APPLICATION CIRCUITS

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)



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