

UTC UNISONIC TECHNOLOGIES CO., LTD

T78040

LINEAR INTEGRATED CIRCUIT

VERTICAL DEFLECTION **OUTPUT CIRCUIT**

DESCRIPTION

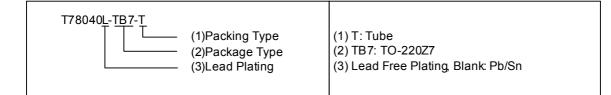
The UTC T78041 is a monolithic integrated circuit and designed for use in high-definition TV and CRT monitors. It is intended to directly drive the deflection coil. Besides, the T78040 offers a maximum deflection current of 1.8A peak to peak to suitable for small to medium diameter CRTs.

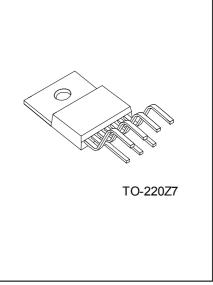
FEATURES

- * 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

ORDERING INFORMATION

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



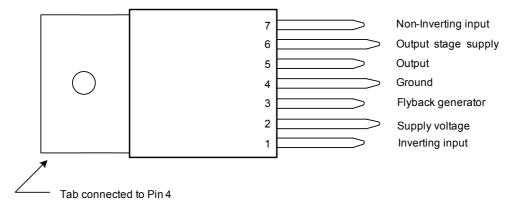


*Pb-free plating product number: T78040L

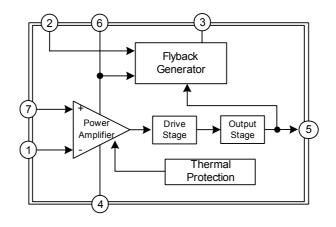
T78040

LINEAR INTEGRATED CIRCUIT

■ PIN CONFIGURATIONS



BLOCK DIAGRAM





■ ABSOLUTE MAXIMUM RATINGS (Ta= 25)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage (pin 2 to Pin4)	Vcc2	34	V
Output Peak Power Supply Voltage (Pin 5 to Pin 4)	Vcc6	70	V
Output Peak Current	I _{5MAX}	-1.5 ~ +1.5	А
Power Dissipation	PD	9	W
Junction Temperature	TJ	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
Thermal Resistance Junction-Case	θ_{JC}	4.0	°C/W

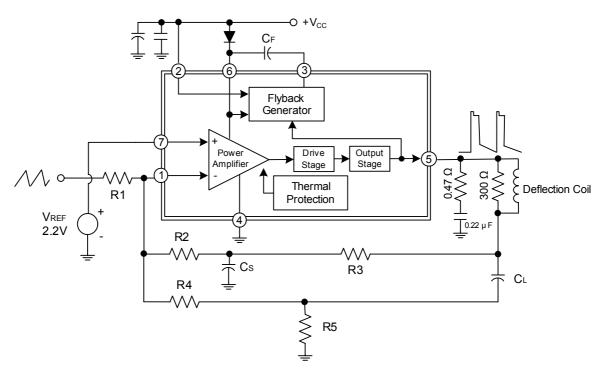
■ ELECTRICAL CHARACTERISTICS (Ta = 25 , V_{CC} = 24V, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	Vcc		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		35		65	mA
Recommend Biggest Deflect Current	15 _{P-P}				1.8	Α

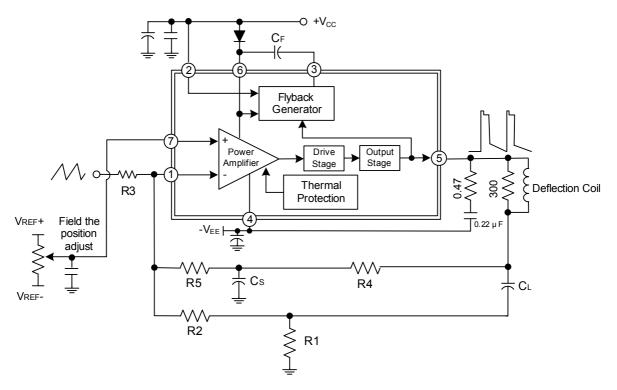


■ APPLICATION CIRCUITS

For AC Coupling (Single Power Supply)



For DC Coupling (Dual Power Supply)





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