

# Triple CRT Driver



## Preliminary Product Information

### CVA2407T

#### FEATURES

- Rise/Fall Time..... 4.0ns
- Swing ..... 65V<sub>P-P</sub>
- Supply Voltage..... 90V

#### APPLICATIONS

- CRT driver for up to 88kHz monitors with resolution up to 1280 x 1024.

#### DESCRIPTION

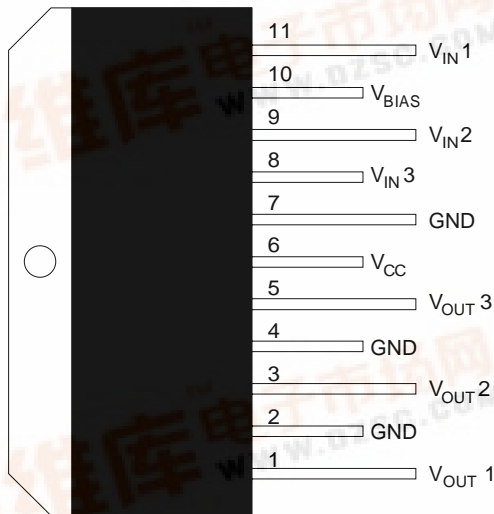
The CVA2407T contains three high impedance, wideband amplifiers, designed specifically to drive a CRT. The device can drive monitors with resolutions up to 1280 x 1024 (non-interlaced) with pixel frequencies of 220MHz.

The product is housed in the industry standard 11 lead TO-220 molded power package.

#### ORDERING INFORMATION

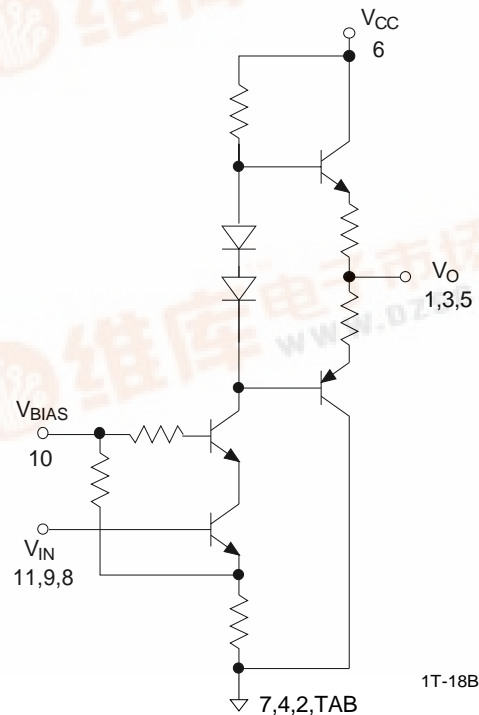
Part	Package	Temperature
CVA2407T	T11A	-20°C to +100°C

#### CONNECTION DIAGRAM



TOP VIEW  
T11A PACKAGE

1L-38



1T-18B



**ABSOLUTE MAXIMUM RATINGS**

Supply Voltage . . . . .	95V	Operating Temperature . . . . .	-20°C to +100°C
Power Dissipation . . . . .	16W	Lead Temperature . . . . .	+300°C
Storage Temperature . . . . .	-25°C to +125°C		

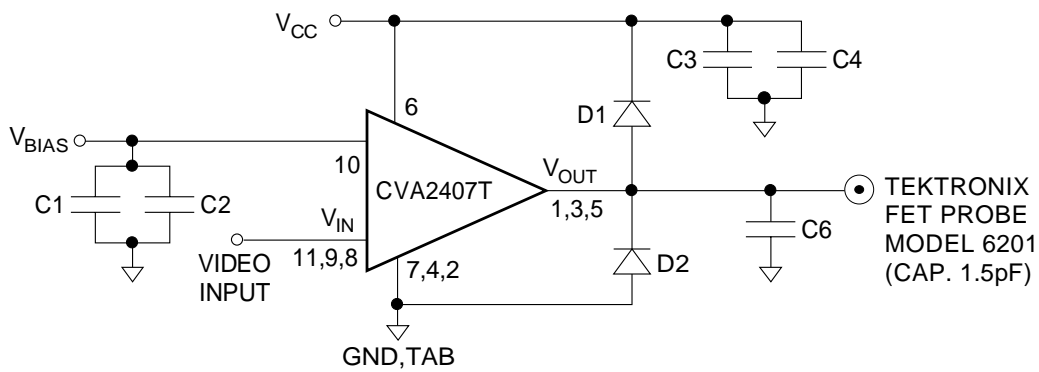
**DC ELECTRICAL CHARACTERISTICS**  $V_s = 80V$ ,  $DC_{INPUT\ BIAS} = 12V$ ,  $V_{IN} = 2.4V$ ,  $T_{CASE} = +25^\circ C$ .  
See Figure 1.

SYMBOL	CHARACTERISTICS	MIN	TYP	MAX	UNITS
$I_{CC}$	Supply Current @ 1MHz		28		mA
$V_{OUT\ DC}$	Output DC Level	45	50	55	V
$A_v$	Voltage Gain	13	15	17	V
	Gain Matching		0.2		dB

**AC ELECTRICAL CHARACTERISTICS**  $V_s = 80V$ ,  $C_L = 8pF$ ,  $DC_{INPUT\ BIAS} = 12V$ ,  $V_{IN} = 2.4V$ ,  $V_{OUT} = 50V_{p-p}$ .  $T_{CASE} = +25^\circ C$ .  
See Figure 1.

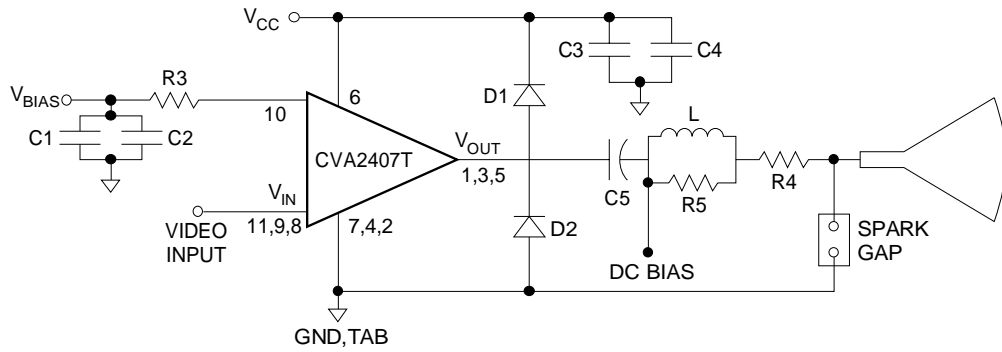
SYMBOL	CHARACTERISTICS	MIN	TYP	MAX	UNITS
$T_r$	Rise Time		4		ns
$T_f$	Fall Time		4		ns
$L_e$	Linearity		5		%
OS	Overshoot		5		%

**FIGURE 1. TEST CIRCUIT**



- C1 = 0.01 $\mu$ F
- C2 = 100 $\mu$ F
- C3 = 0.1 $\mu$ F
- C4 = 100 $\mu$ F
- C6 = 8pF
- D1, D2 = FHD400

FIGURE 2. APPLICATION CIRCUIT



- |                |             |                 |
|----------------|-------------|-----------------|
| R3 = 47Ω       | C1 = 0.01μF | D1, D2 = FHD400 |
| R4 = 47(1/2W)Ω | C2 = 100μF  | L = 330 - 390nH |
| R7 = 33Ω       | C3 = 0.1μF  |                 |
| R8 = 39Ω       | C4 = 100μF  |                 |
| R10 = 680Ω     | C5 = 2.2μF  |                 |