



VERTICAL DEFLECTION BOOSTER

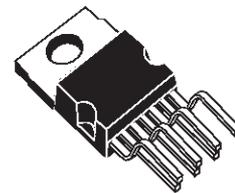
- POWER AMPLIFIER
- FLYBACK GENERATOR
- THERMAL PROTECTION
- OUTPUT CURRENT UP TO 2.0A_{PP}
- FLYBACK VOLTAGE UP TO 90V (on Pin 5)
- SUITABLE FOR DC COUPLING APPLICATION

DESCRIPTION

Designed for monitors and high performance TVs, the STV9379 vertical deflection booster delivers flyback voltages close to 90V.

The STV9379 operates with supplies up to 42V and provides up to 2A_{PP} output current to drive the yoke.

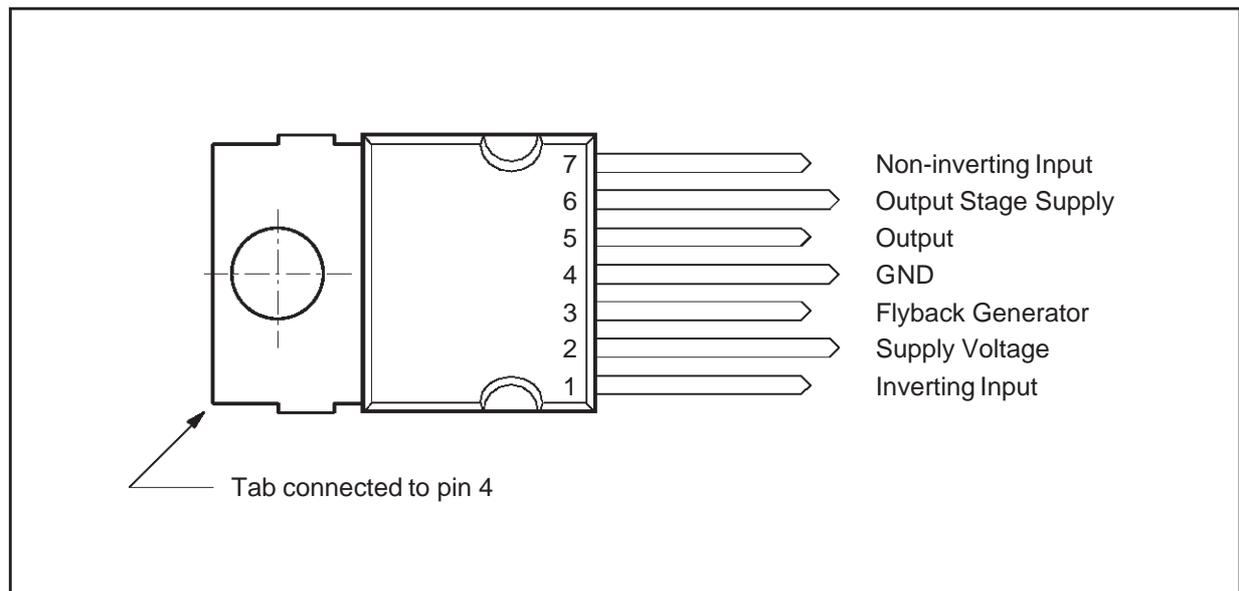
The STV9379 is offered in HEPTAWATT package.



HEPTAWATT
(Plastic Package)

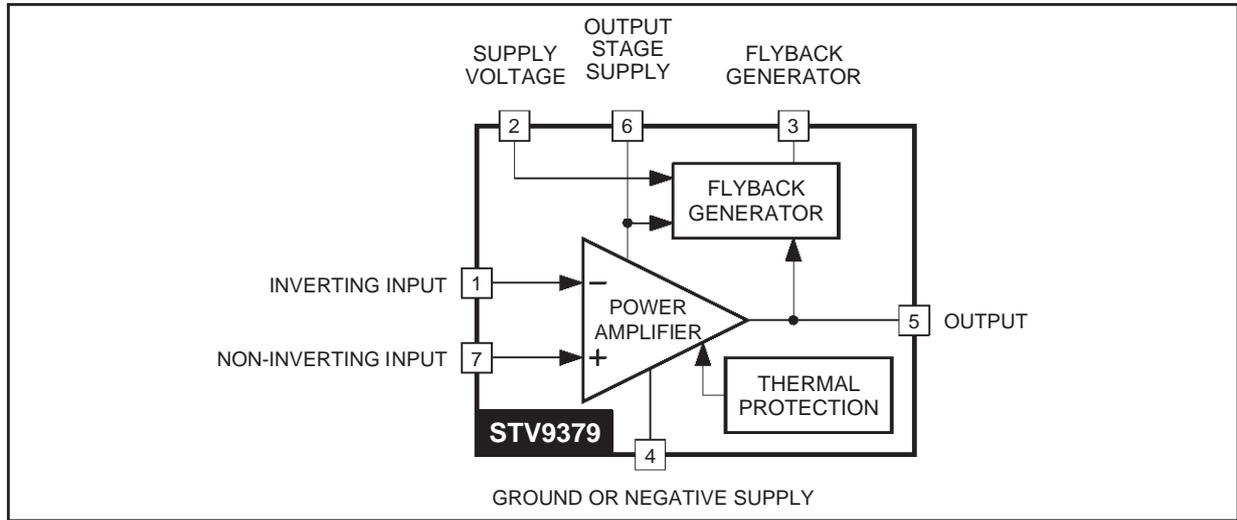
ORDER CODE : STV9379

PIN CONNECTIONS



9379-01.EPS

BLOCK DIAGRAM



9379-02.EPS

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_S	Supply Voltage (Pin 2) (see note 1)	50	V
V_6	Flyback Peak Voltage (Pin 6) (see note 1)	100	V
V_1, V_7	Amplifier Input Voltage (Pins 1-7) (see note 1)	- 0.3, + V_S	V
I_O	Maximum Output Peak Current (see notes 2 and 3)	1.5	A
I_3	Maximum Sink Current (first part of flyback) ($t < 1\text{ms}$)	1.5	A
I_3	Maximum Source Current ($t < 1\text{ms}$)	1.5	A
V_{ESD}	ESD susceptibility : EIAJ Norm (200pF discharged through 0Ω)	300	V
T_{oper}	Operating Ambient Temperature	- 20, + 75	°C
T_{stg}	Storage Temperature	- 40, + 150	°C
T_j	Junction Temperature	+150	°C

9379-01.TBL

- Notes :**
1. Versus Pin 4.
 2. The output current can reach 4A peak for $t \leq 10\mu\text{s}$ (up to 120Hz).
 3. Provided SOAR is respected (see Figures 1 and 2).

THERMAL DATA

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	Junction-case Thermal Resistance Max.	3	°C/W
T_t	Temperature for Thermal Shutdown	150	°C
ΔT_t	Hysteresis on T_t	10	°C
T_{jr}	Recommended Max. Junction Temperature	120	°C

9379-02.TBL