

# AN5515

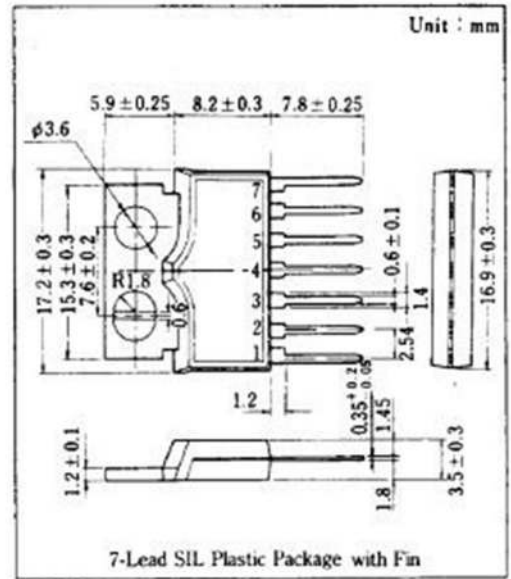
## TV Vertical Deflection Output Circuit

### ■ Features

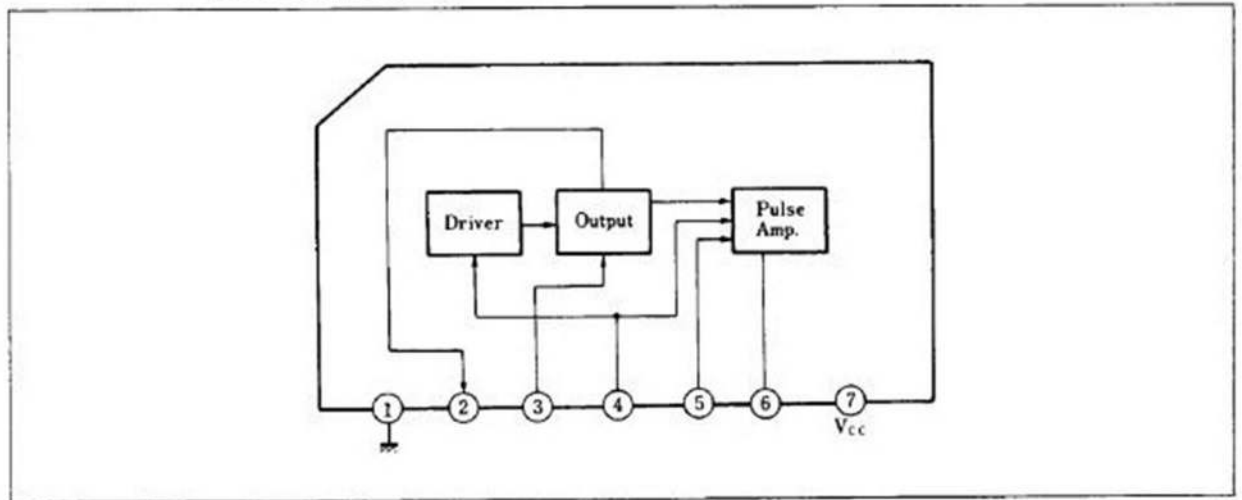
- Low power consumption, direct deflection coil driving capability (Flyback voltage two times as high as supply voltage is supplied during flyback period only)
- High breakdown voltage : 60 V

### Pin

Pin No.	Pin Name
1	GND
2	Output
3	Supply Voltage for Output
4	Input
5	Trigger Pulse Input
6	Pulse Amp. Output
7	V <sub>CC</sub>



### Block Diagram



**Absolute Maximum Ratings (Ta=25°C)**

Symbol	Rating		Unit
V <sub>CC</sub>	30		V
V <sub>3-1</sub>	0	60	V
V <sub>4-1</sub>	-1	6	V
V <sub>5-1</sub>	-1	3	V
I <sub>CC</sub>	300		mA
I <sub>2</sub>	-1300	1300	mA <sub>O-P</sub>
I <sub>6</sub>	-1300	1300	mA <sub>O-P</sub>
P <sub>D</sub>	6		W
T <sub>opr</sub>	-20~+70		°C
T <sub>stg</sub>	-55~+150		°C

**Electrical Characteristics (Ta=25°C)**

Symbol	Test Circuit	Condition	min.	typ.	max.	Unit		
I <sub>y(P-P)</sub>	1		1280	1380	1480	mA <sub>P-P</sub>		
ΔI <sub>y(+)</sub>	1		46		140	mA <sub>P-P</sub>		
ΔI <sub>y(-)</sub>	1		42		126	mA <sub>P-P</sub>		
ΔI <sub>y</sub> /Ta	1	Ta = -20~+70°C	-1.5		1.5	%		
V <sub>MID</sub>	1		13.2	13.8	14.4	V		
V <sub>(FBP)</sub>	1		47			V		
I <sub>CQ</sub>		V <sub>3-1</sub> =24V V <sub>7-1</sub> =24V V <sub>5-1</sub> =0			8	14	24	mA
V <sub>3-2</sub>		V <sub>3-1</sub> =V <sub>7-1</sub> =24V, Pin ②-①=56Ω V <sub>4-1</sub> =0.3V, V <sub>5-1</sub> =0		2.6	3.6	V		
V <sub>2-1</sub>		V <sub>3-1</sub> =V <sub>7-1</sub> =24V, Pin ②-③=56Ω V <sub>4-1</sub> =3V, V <sub>5-1</sub> =0		0.4	1	V		
V <sub>6-1</sub>		V <sub>7-1</sub> =24V, Pin ⑦-⑥=1.2kΩ V <sub>5-1</sub> =0, V <sub>4-1</sub> =2V			0.5	V		
R <sub>th(j-c)</sub>					4	°C/W		

Item	SW-A
$I_{y(p-p)}$	②
$\Delta I_{y(+)}$	①
$\Delta I_{y(-)}$	①
$\Delta I_y/T_a$	①
$V_{MD}$	①
$\tau_{(FBP)}$	①

