

8. POWER SUPPLY SYSTEMS

8-1) TABLE OF POWER REGULATOR APPLICATIONS

Applications	Series Regulator (Line operated)				Switching Regulator						
	Transistors				Transistors				Thyristors		
Package	TO-220	TO-3		TO-3P	TO-220	TO-3		TO-3P	Package	TO-220	TO-66
$I_C(A)$ $V_{CEO}(V)$	3 ~ 7	1~3	4~5	5~10	2~5	2~5	6 ~ 10	7	$I_O(A)$ $V_{DRM}(V)$	3	3
									300	S6192F S6278F S6321F S6340F S6344F	
55±10			\$ # 2SD777	\$ # 2SD1092							
60±15			# 2SD1208	# 2SD1294							
60	2SD880 2SB834								400	S6192G S6278G S6321G S6340G S6344G	
180				\$ 2SD1090							
200		2SC1195 2SD657									
400					2SC2553 2SD841		2SD811	2SC2555	500		S6089
600						2SD820 2SD821 2SD822	2SD1279				
800						2SC2790 2SC2791		2SC2792 2SD1434			

\$: High h_{FE} Series, #: Built in Protector Diode

Bi-Directional Zener Diodes

1ZM30	$V_Z=24\sim36V, 1W$
1ZM50	$V_Z=40\sim60V, 1W$

Reference Diode (ZENER)

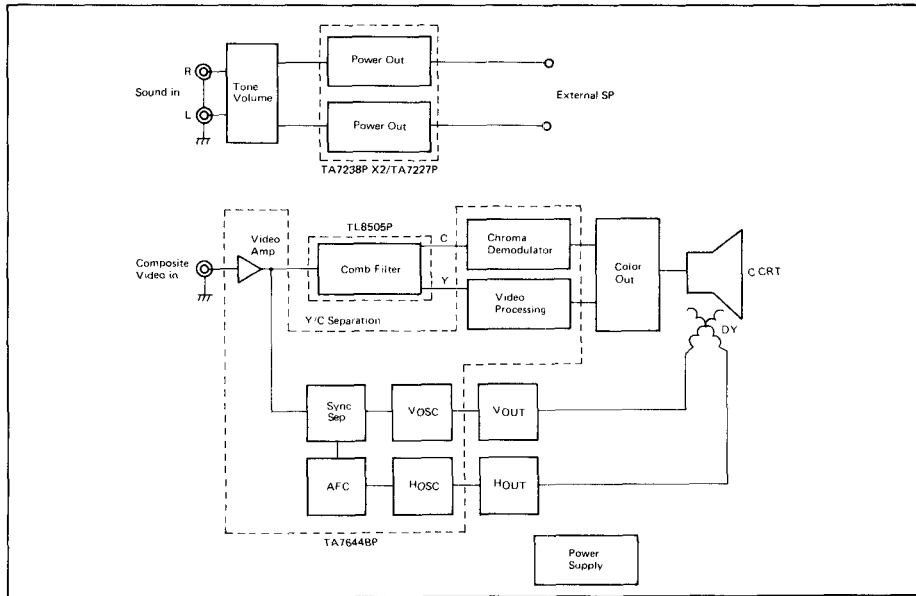
500mW	05Z series (V_Z Range: 2.0~100V)
1000mW	1Z series (V_Z Range: 6.2~390V)

Series Regulator Driver of line operated TV

S1854 (NOTE)

NOTE: Possible to eliminate the Output Voltage Adjustment of regulator stage in line operated TV.

11-3) VIDEO COLOR MONITOR



11-4) SEMICONDUCTOR RECOMMENDATION FOR CRT MONITORS

STAGE	SYSTEM	B/W CRT Terminal		Color CRT Terminal		Color Monitor	
		SMALL	LARGE	SMALL	LARGE	SMALL	LARGE
Sound Output	Low +B	(2SC2120 2SA950)	(2SD880 2SB834)	(2SC2236 2SA966)	(2SD880 2SB834)	(2SC2236 2SA966)	(2SD880 2SB834)
	High +B	2SC2230 X2	(2SC2483 2SA1195)	2SC2230 X2	(2SC2073 2SA940)	(2SC2383 2SA1013)	(2SC2073 2SA940)
Vertical Output	Low +B	(2SC2236 2SA966)	(2SD880 2SB834)	(2SC496 2SA496)	(2SD880 2SB834)	(2SC496 2SA496)	(2SD880 2SB834)
	High +B	(2SC2481 2SA1021)	(2SC2073 2SA940)	(2SC2481 2SA1021)	(2SC2073 2SA940)	(2SC2481 2SA1021)	(2SC2073 2SA940)
Horiz. Output	Low +B	2SC2233	2SD1069	*	*	*	*
	High +B	2SD868	2SD870	2SD869	2SD870	2SD869	2SD870
Video Output	Class A	2SC2229	2SC2068	2SC2229 or 2482	2SC2068	2SC2229 or 2482	2SC2068
	Class B (SRPP)	2SC2705	2SC2705 x2	2SC2705 x2	2SC2704 x2	2SC2705 x2	2SC2704 x2
	Class B (SEPP)	(2SC2551 2SA1091)	(2SC2229 2SA949)	(2SC2229 2SA949)	(2SC2704 2SA1144)	(2SC2705 2SA1145)	(2SC2704 2SA1144)
Power Supply	Series Pass	2SD880	2SD717	2SD1092 or 1294	2SD777 or 1208	*	*
	Switching	2SD841	2SD820	2SC2555 or D811	2SD822 or 1279	2SC2555 or D811	2SD822 or 1279

SMALL: 6"~14", LARGE: 16"~26"