

7-3) HORIZONTAL/VERTICAL OUTPUT TRANSISTORS

7-3-1) TABLE OF HORIZONTAL OUTPUT TRANSISTORS

(EUROPEAN TYPE REFER TO NEXT PAGE 7-4)

Package	TO-220	TO-3						TO-3P(H)\$				
$V_{CE0}(V)$ $I_C(A)$	4	2.5	3.5	5	6	7	10	2.5	3.5	5	6	7
200	2SC2233											
300	2SD1069#					2SC1617						
750							S2108#					
1400							2SD1279					
1500		2SD818	2SD819	2SD820	2SD821	2SD822		2SD1429	2SD1430	2SD1431	2SD1432	2SD1433
		2SD868#	2SD869#	2SD870#	2SD871#			2SD1425#	2SD1426#	2SD1427#	2SD1428#	

*: Under Development, #: Built-in Damper Diode, \$: Plastic Package

7-3-2) TABLE OF VERTICAL OUTPUT TRANSISTORS

Package	TO-92 MOD				TO-126			TO-220			
$P_c(W)$	0.9				15	20	25	25	30	40	20
$I_C(A)$											
$V_{CE0}(V)$	0.8	1.0	1.5	2.0	1.0	1.5	2.0	1.5	3.0	4.0	5.0
30			2SC2236 2SA966								
50				2SC2655 2SA1020							2SC2562 2SA1012
60							2SC2794		2SD880 2SB834		
80					2SC1382 2SA682						
90										S1236 S1237	
120	2SC2235 2SA965				2SC2824 2SA1184						
150						2SC2481 2SA1091		2SC2073 2SA940			
160		2SC2383 2SA1013						2SC2238 2SA968			

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
$I_C(A)$ $V_{CE0}(V)$	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)

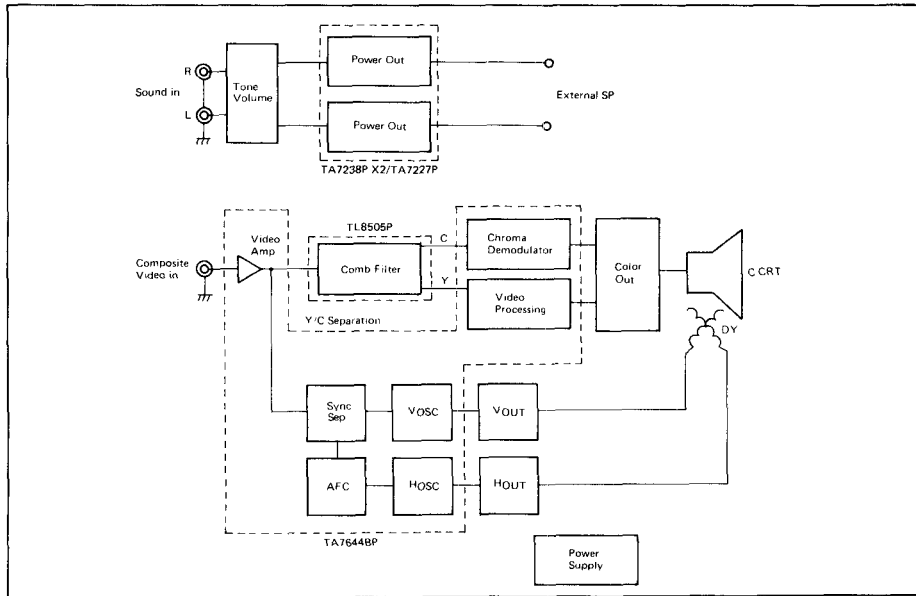
500mW	05Z series (V_Z Range: 2.0~100V)
1000mW	1Z series (V_Z Range: 6.2~390V)

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"