

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.