

ELECTRICAL CHARACTERISTICS (@ Ta : 25°C)

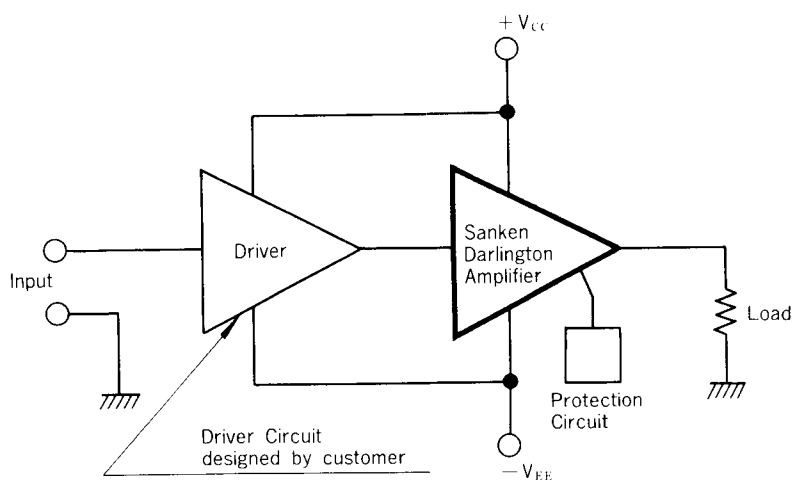
Characteristics	S - 100W	S - 60W	S - 40W	Remarks
Maximum Supply Voltage	120V or $\pm 60V$	100V or $\pm 50V$	80V or $\pm 40V$	
Supply Voltage	100V or $\pm 50V$	80V or $\pm 40V$	60V or $\pm 30V$	
Supply Current	1.63A	1.26A	1.03A	$R_L = 8\Omega$
Output Power	100W	60W	40W	$R_L = 8\Omega$
Idling Current	50mA \pm 10mA	40mA \pm 10mA	30mA \pm 10mA	
	(α) 7mA	5mA	3mA	Flowing through Diode
Thermal Resistance	1.9°C/W max	2.2°C/W max		Junction to base plate
Operating Temperature				-20°C ~ +80°C
Storage Temperature				-30°C ~ +100°C

INTERNAL PARTS RATINGS (@ Ta=25°C)

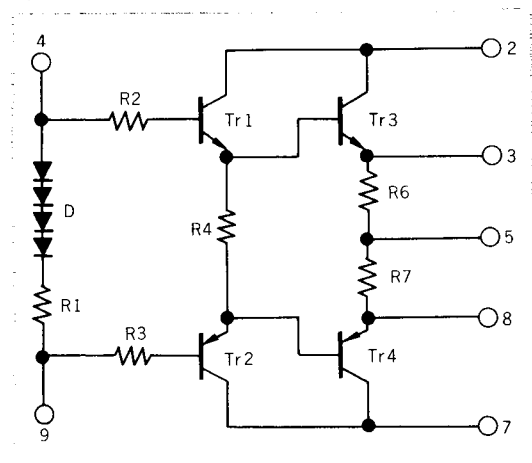
Refer to Schematic for symbols.

Part Symbol	S - 100W	S - 60W	S - 40W
h_{FE} of	2500min ($V_{CE}=6V$)		
Tr1 \times Tr3, Tr2 \times Tr4 (α)	$I_C = 5A$	$I_C = 3A$	
R1	About 50 Ω	About 100 Ω	
	(α) To adjust I_d		
R2, R3	330 $\Omega \pm 30\%$	Nil	
	330 ~ 470 Ω	330 $\Omega \pm 30\%$	
R5	Nil	330 $\Omega \pm 30\%$	
R6, R7	0.33 ~ 0.47 Ω		

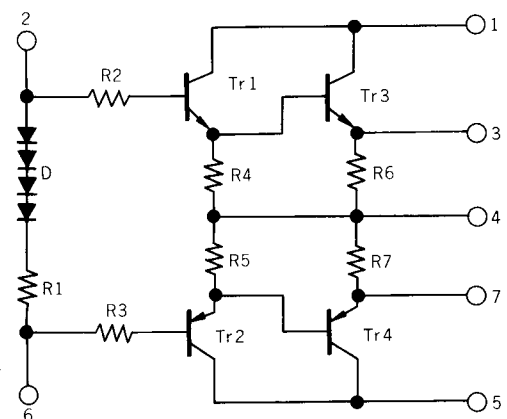
COMPLETE AUDIO MAIN AMPLIFIER USING DARLINGTON AMPLIFIER



SCHEMATIC S-100W



S-60W, S-40W



APPLICATION NOTES

1. Use a silicone grease such as GE Insulgrease G-640 to provide good thermal contact from base to heat sink.
2. Torque of clamping screw should be 5kg-cm to 10kg-cm.
3. Do not clamp tight only one screw. Add torque to both screws alternatively.
3. Do not bend pin terminals.
4. Connectors are not recommended for S-100W.