



TYPE 6854 (Tentative Data)  
 Reliable Hard Glass Double Triode

MECHANICAL DATA

Coated unipotential cathode	
Outline drawing . . . . .	6-2 Bulb . . . . . T-6 1/2
Base . . . . .	E9-1 miniature button, 9-Pin
Maximum bulb temperature . . . . .	300°C
Maximum diameter . . . . .	7/8
Maximum seated height . . . . .	1-15/16
Maximum overall length . . . . .	2-3/16
Pin connections	
Pin 1 Heater	Pin 6 #1 triode plate
Pin 2 #2 triode cathode	Pin 7 #1 triode grid
Pin 3 #2 triode grid	Pin 8 #1 triode cathode
Pin 4 #2 triode plate	Pin 9 Heater
Pin 5 Shield, internal	
Mounting position . . . . .	any
Life expectancy . . . . .	10,000 hrs

ELECTRICAL DATA

	Without	
	Shield	
<u>Direct interelectrode capacitances(each section)</u>		
Grid to plate: (g to p) . . . . .	1.7	μf
Input: g to (h+k+i. s.) . . . . .	2.4	μf
Output: p to (h+k+i. s.) . . . . .	1.1	μf
Plate to plate. . . . .	0.10	μf
<u>Ratings (each section)</u>		
Heater voltage (ac or dc). . . . .	6.3	volts
Maximum plate voltage . . . . .	300	volts
Maximum positive d-c grid voltage . . . . .	0	volts
Maximum plate dissipation . . . . .	1.5	watts
Maximum cathode current . . . . .	20	mA
Maximum heater-cathode voltage . . . . .	300	volts
Maximum grid circuit resistance . . . . .	1.0	meg

Typical operating conditions and characteristics, class A1 amplifier  
 (per section except where noted)

Heater voltage (ac or dc). . . . .	6.3	volts
Heater current (both sections). . . . .	500	mA
Plate voltage . . . . .	150	volts
Cathode bias resistor. . . . .	240	ohms
Plate current . . . . .	8.2	mA
Plate resistance (approximate) . . . . .	6500	ohms
Transconductance . . . . .	5225	μmhos
Amplification factor . . . . .	35	
Grid #1 voltage for I <sub>b1</sub> =10μA . . . . .	-8	volts