

## TYPE 5B/254M BEAM-POWER AMPLIFIER

This valve is an indirectly heated, beam-power tetrode electrically similar to the 807 type, and of reliable construction.

Indirectly-heated, oxide coated.

Heater Voltage	6.3 V
Nominal current	0.9 A

### CATHODE

### CHARACTERISTICS

Mutual Conductance	6 mA/V
Screen grid $\mu$	9

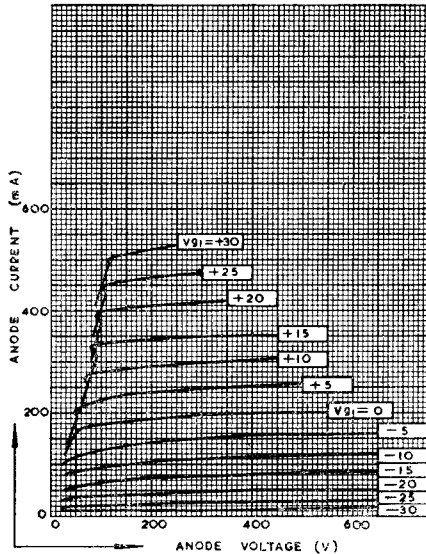
Measured at  
 $V_a$  300 V;  $V_{g2}$  250 V;  
 $I_a$  72 mA

### OPERATING CHARACTERISTICS

#### CLASS A Single Valve

Anode Voltage	250	350	volts
Anode Current (Zero Signal)	72	54	mA
Anode Current (Max. Signal)	79	66	mA
Screen Voltage	250	250	volts
Screen Current (Zero Signal)	5.0	2.5	mA
Screen Current (Max. Signal)	7.3	7.0	mA
Control Grid ( $g_1$ ) Voltage	-14	-18	volts
Cathode Bias Resistor	170	300	ohms
Anode Impedance	22,500	33,000	ohms
Mutual Conductance	6.0	5.2	mA/V
Optimum Load	2,500	4,200	ohms
Power Output	6.5	11	watts
Harmonic Distortion	10	15	per cent

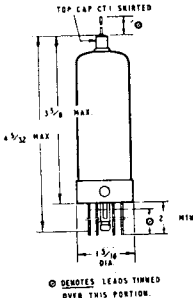
5B/254-7M	$V_{g2} = 250 V$
VL 801-2	



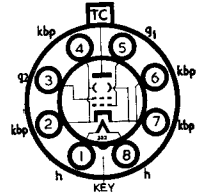
### VENTILATION

As this valve runs very hot in operation the equipment should be designed so that adequate ventilation is afforded to ensure a safe bulb temperature under all conditions of operation.

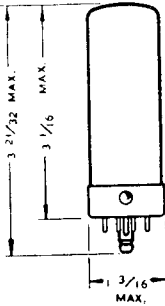
**5B/254G**  
**5B/255M**  
**5B/257M**  
**5B/258M**



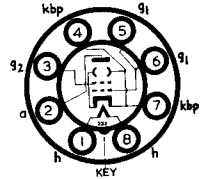
**TYPE 5B/254G**  
**BEAM-POWER**  
**AMPLIFIER**



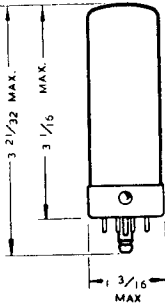
5B/254G is identical to the 5B/254M but has flexible leads for wiring directly into the circuit.



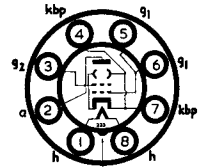
**TYPE 5B/255M**  
**BEAM-POWER**  
**AMPLIFIER**



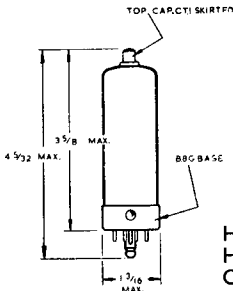
Characteristics identical to 5B/254M



**TYPE 5B/257M**  
**BEAM-POWER**  
**AMPLIFIER**



Heater Voltage	...	...	...	12	V
Heater Current	...	...	...	0.47	A
Other characteristics identical to 5B/254M.					



**TYPE 5B/258M**  
**BEAM-POWER**  
**AMPLIFIER**

Heater Voltage	...	...	...	19	V
Heater Current	...	...	...	0.3	A
Other characteristics identical to 5B/254M.					

For full technical details on any of the above valves, apply to Standard Telephones & Cables Ltd., Connaught House, Aldwych, London, W.C.2.

