

JOINT ELECTRON TUBE ENGINEERING COUNCIL

DATA SHEET

Electron Tube Type 5834

The 5834 is a single-ended, mercury-vapor, half-wave rectifier for use in low-voltage rectifier circuits.

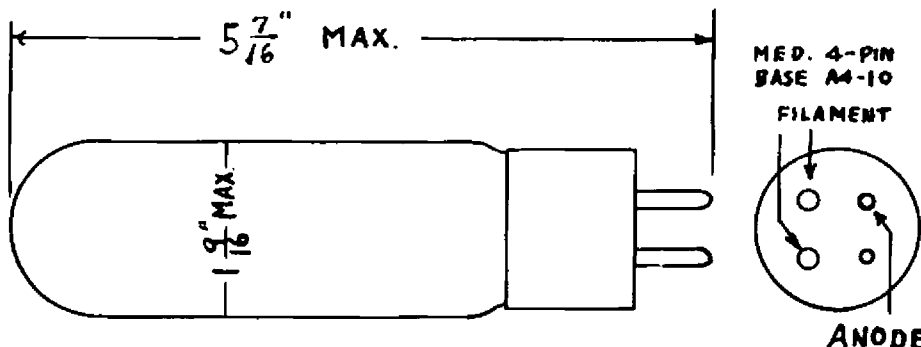
Maximum Ratings, Absolute Values

Maximum Peak Inverse Anode Voltage	900 Volts
Maximum Cathode Current	
Peak	
In-phase Operation	10 Amperes
Quadrature Operation	10 Amperes
Average	
In-phase Operation	2 Amperes
Quadrature Operation	2 Amperes
Surge (Maximum duration 0.1 seconds)	125 Amperes
Maximum Averaging Time	5 Seconds
Maximum Frequency	150 Cycles/sec
Condensed Mercury Temperature Limits	
(mercury or mercury-gas filled tubes only)	+35° to +85° Centigrade

<u>Electrical Data</u>	Min.	Bogey	Max.	
Filament (heater) Voltage	2.38	2.5	2.62	Volts
Filament (heater) Current at 2.5 volts	XX	7	8	Amperes
Cathode heating time, required	20	XX	XX	Seconds
Anode Voltage Drop	XX	9	XX	Volts
Critical Anode Voltage	XX	XX	30	Volts

Mechanical Data

Type of cooling	Convection
Equilibrium Condensed-mercury Temperature Rise	
a. At Full Load, Approximate	25° C
b. At No Load, Approximate	20° C
Mounting position	Vertical, base down
Net Weight, maximum	.3 Pounds



8/10/50

(N.E. type NL-649)

NOTE: Condensed mercury temperature is to be measured within 1/4" band immediately above base.

4/7/49