

JOINT ELECTRON TUBE ENGINEERING COUNCIL

DATA SHEET

sponsor:
 National Electronics, Inc.

Electron Tube Type 5835

The 5835 is a single-ended, mercury-vapor, half-wave rectifier for use in low-voltage rectifier circuits.

Maximum Ratings, Absolute Values

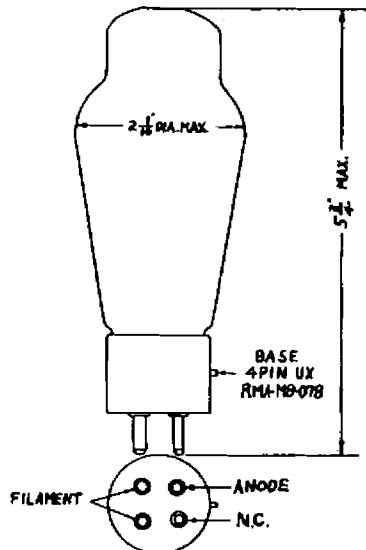
Maximum Peak Inverse Anode Voltage	<u>900</u> Volts
Maximum Cathode Current	
Peak	
In-phase Operation	<u>12</u> Amperes
Quadrature Operation	<u>12</u> Amperes
Average	
In-phase Operation	<u>3</u> Amperes
Quadrature Operation	<u>3</u> Amperes
Surge (Maximum duration 0.1 seconds)	<u>200</u> Amperes
Maximum Averaging Time	<u>5</u> Seconds
Maximum Frequency	<u>150</u> Cycles/sec
Condensed Mercury Temperature Limits (mercury or mercury-gas filled tubes only)	<u>+35° to +85°</u> Centigrade

Electrical Data

	Min.	Bogey	Max.	
Filament (heater) Voltage	2.38	2.5	2.62	Volts
Filament (heater) Current at 2.5 volts	XX	9½	11	Amperes
Cathode heating time, required	40	XX	XX	Seconds
Anode Voltage Drop	XX	11	XX	Volts
Critical Anode Voltage	XX	XX	30	Volts

Mechanical Data

Type of cooling	<u>Convection</u>
Equilibrium Condensed-mercury Temperature Rise	
a. At Full Load, approximate	<u>30°</u> C
b. At No load, Approximate	<u>23°</u> C
Mounting position	<u>Vertical, base down</u>
Net Weight, maximum	<u>.4#</u> pounds



8/10/50

(N.E. type NL-653)

NOTE: Condensed mercury temperature is to be measured within 1/4" band immediately above base.
 4/7/49