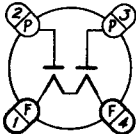


TWIN DIODE
FULL WAVE MERCURY VAPOR RECTIFIER
Filament Type Glass Bulb

The 83 is a full wave mercury vapor rectifier tube designed for service in power supplies for a-c operated receivers.



BOTTOM VIEW OF SOCKET

FULL WAVE RECTIFIER

Filament Voltage	5	a-c	volts
Filament Current	3		amp
Maximum A-C Voltage per Plate (RMS)	500		volts
Maximum Inverse Peak Voltage	1400		volts
Maximum Peak Plate Current	800		ma
Maximum D-C Output Current	250		ma
Tube Voltage Drop (approximate)	15		volts
(Independent of output current)			

Shielding of this tube, particularly in sensitive receivers, may be necessary to eliminate objectionable noise.

Radio frequency chokes (1 mh. or more) connected in series with each plate lead and placed within the shielding, if used, are usually necessary in receivers having high sensitivity.

Full plate load should not be applied to this tube until the filaments have reached their normal operating temperature. Under normal operating conditions, the filaments heat quickly when the set is turned on and are ready to supply full load current before the tubes in the receiver require it.

