Half-Wave Vacuum Rectifier

Electrical:
Min. Av. Max.
Heater Characteristics and Ratings: Voltage (AC or DC)
Mechanical:
Operating Position
6-Pin, Arrangement 1 (JEDEC Group 1, No.B-6-60) Basing Designation for BOTTOM VIEW
Pin 1 - Do Not Use Pin 2 - Heater Pin 3 - Do Not Use Pin 5 - Do Not Use Pin 7 - Heater, Cathode, Internal Shield Pin 8 - Do Not Use Cap - Plate

PULSED-RECTIFIER SERVICE

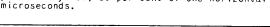
Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame systemb	
Peak Inverse Plate Voltage ^c 30000 max.	volts
Peak Plate Current 88 max.	ma
Average Plate Current	ma

Without external shield.

As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.





OPERATING CONSIDERATIONS

The high voltages at which the 3AW3 is operated are very dangerous. Great care should be taken in the design of equipment to prevent the operator from coming in contact with these high voltages. Particular care against fatal shock should be taken in the measurement of heater voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

 $\it X-radiation.$ The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce $\it X-radiation$ which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.