RECTIFIER

COATED UNIPOTENTIAL CATHODE

HEATER
1.4 VOLTS 0.55 AMP.
AC OR DC
ANY MOUNTING POSITION

THE IS2A IS A HIGH VACUUM-SINGLE ANODE RECTIFIER DESIGNED FOR E.H.T. SUPPLY FROM THE LINE TIME BASE IN TELEVISION RECEIVERS. EXCEPT FOR A CHEMICALLY TREATED ENVELOPE, WHICH AVOIDS FLASH-OVER UNDER CONDITIONS OF HIGH HUMIDITY AND LOW ATMOSPHERIC PRESSURE, IT IS IDENTICAL TO THE 1S2.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

PLATE TO CATHODE AND HEATER 1.8 μF

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE 1.4 VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE 22 000 CD VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE AT ZERO PLATE CURRENT 24 000 CD VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE (ABS. LIMIT) 27 000 CD VOLTS
MAXIMUM DC OUTPUT CURRENT 0.8 MA.
MAXIMUM PEAK PLATE CURRENT 40° MA.
MAXIMUM FILTER INPUT CAPACITOR 2 000 μF
HEATER VOLTAGE AT A D.C. OUTPUT CURRENT LESS THAN 200 MA (ABSOLUTE LIMITS) 1.4±15% VOLTS
HEATER VOLTAGE AT D.C. OUTPUT CURRENT HIGHER THAN 200 MA (ABS. LIMITS) 1.4±7.5% VOLTS

OPERATING CONDITIONS

HEATER VOLTAGE 1.4 VOLTS
HEATER CURRENT 0.55 AMP.
DC OUTPUT CURRENT 0.15 MA.
DC OUTPUT VOLTAGE 18 000 VOLTS

CONTINUED ON FOLLOWING PAGE
TUNG-SOL

CONTINUED FROM PRECEDING PAGE

NOTES

A When the heater is to be operated on R.F. voltage or fly back pulses, the heater voltage can be adjusted to 1.4 volts by comparison of the color of the cathode with that of a cathode heated by 1.4 volts DC or low-frequency AC.

B To prevent corona it is recommended to use an anti-corona ring around the tube holder, which should be connected to the cathode (pins 1, 4, 8, and 9).

C Circuit elements having the same potential as the heater (e.g. a series resistor) may be supported by the tube holder contacts 3 or 7. These contacts should, however, never be utilized.

D Due to ringing caused by the line output transformer, an additional negative plate voltage may occur. The peak value of which must be taken into account. The increase of the peak negative plate voltage due to this effect may amount up to 2% of the d.c. output voltage of the transformer.

E Maximum pulse duration 15% of a cycle, with a maximum of 20 usec.

F Maximum pulse duration 10% of a cycle, with a maximum of 10 usec.