Half-Wave Vacuum Rectifier

DUODECAR TYPE

Electrical:
Heater Characteristics and Ratings (Design-Maximum Values):
Voltage (AC or DC). 6.3 ± 0.6 volts
Current at heater volts = 6.3. 1.200 amp
Peak heater-cathode voltage:
Heater negative with respect to cathode a 3300 b max. volts
Heater positive with respect to cathode 300 c max. volts
Direct Intelectrode Capacitances (Approx.):
K to (P,H). 8.0 pf
P to (K,H). 5.5 pf
H to K. 2.7 pf

Mechanical:
Operating Position. Any
Type of Cathode Coated Unipotential
Maximum Overall Length. 2.625"
Seated Length 2.000" to 2.250"
Diameter. 1.062" to 1.188"
Bulb. T9
Base. Small-Button Duodecar 12-Pin (JEDEC No.E12-70)
Basing Designation for BOTTOM VIEW. 12BL

Pin 1-Heater
Pin 2-No Internal Connection
Pin 3-Same as Pin 2
Pin 4-Plate
Pin 5-Do Not Use e
Pin 6-Do Not Use e
Pin 7-Cathode
Pin 8-Do Not Use e
Pin 9-Do Not Use e
Pin 10-Plate
Pin 11-Same as Pin 2
Pin 12-Heater

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system f
Peak Inverse Plate Voltage a 3300 max. volts
Peak Plate Current 840 max. ma
DC Plate Current 140 max. ma
Plate Dissipation 4 max. watts

Characteristics, Instantaneous Value.
Tube Voltage Drop for plate
ma. = 250. 21 volts
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.

b. The dc component must not exceed 600 volts.

c. The dc component must not exceed 100 volts.

d. Without external shield.

e. Socket terminals 5, 6, 8 and 9 should not be used at tie points.