

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 Interelectrode Capacitances

(Approx.):^d

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

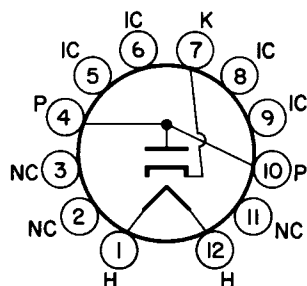
Pin 8 - Do Not Use^e

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



6BJ3

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

