

Half-Wave Vacuum Rectifier

DUODECAR TYPE

GENERAL DATA

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 5000^b max. volts

Heater positive with
respect to cathode 300^c max. volts

Direct Interelectrode Capacitances

(Approx.):^d

Plate to cathode and heater 5.5 μf

Cathode to plate and heater 7.5 μf

Heater to cathode 2.8 μf

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

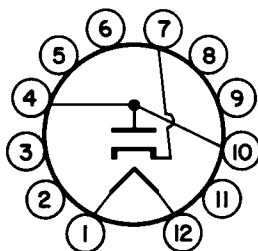
Pin 8-Do Not
Use^e

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 5000 max. volts

PEAK PLATE CURRENT 1000 max. ma

DC PLATE CURRENT 165 max. ma

PLATE DISSIPATION 5.3 max. watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate

ma. = 250 32 volts



6AX3

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

