

6BE3

Half-Wave Vacuum Rectifier

DUODECAR TYPE

Electrical:

Heater Characteristics and Ratings:

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

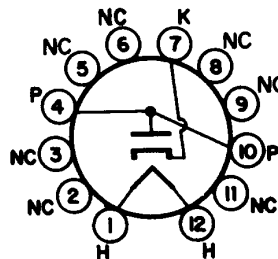
Direct Interelectrode Capacitances (Approx.):^d

P to (K,H) 10 pf
 K to (P,H) 8.0 pf
 H to K 3.4 pf

Mechanical:

Operating Position Any
 Type of Cathode Coated Unipotential
 Maximum Overall Length 2.875"
 Seated Length 2.250" to 2.500"
 Diameter 1.062" to 1.188"
 Dimensional Outline See *General Section*
 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-Same as Pin 2
- Pin 6-Same as Pin 2
- Pin 7-Cathode
- Pin 8-Same as Pin 2
- Pin 9-Same as Pin 2
- 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^e

Peak Inverse Plate Voltage^a 5000 max. volts
 Peak Plate Current 1200 max. ma
 DC Plate Current 200 max. ma
 Plate Dissipation 6.5 max. watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate
 ma. = 350 25 volts



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

