

## Half-Wave Vacuum Rectifier

### DUODECAR TYPE

#### Electrical:

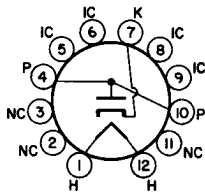
Heater Characteristics and Ratings (*Design-Maximum Values*):

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 <sup>a</sup>	3300 <sup>b</sup>	max. volts
Heater positive with respect to cathode	300 <sup>c</sup>	max. volts
Direct Interelectrode Capacitances (Approx.): <sup>d</sup>		
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<sup>e</sup>
- Pin 6 - Do Not Use<sup>e</sup>
- Pin 7 - Cathode
- Pin 8 - Do Not Use<sup>e</sup>
- Pin 9 - Do Not Use<sup>e</sup>
- 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<sup>f</sup>*

Peak Inverse Plate Voltage <sup>a</sup> . . . . .	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
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# 6BJ3

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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 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.

