

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

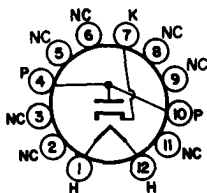
Direct Interelectrode Capacitances (Approx.):^d

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 <i>General Section</i>
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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6BE3

- 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.

