

Half-Wave Vacuum Rectifier

DUODECAR TYPE

GENERAL DATA

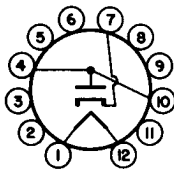
Electrical:

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 7 - Cathode
Pin 2 - No Internal Connection	Pin 8 - Do Not Use ^e
Pin 3 - Same as Pin 2	Pin 9 - Do Not Use ^e
Pin 4 - Plate	Pin 10 - Plate
Pin 5 - Do Not Use ^e	Pin 11 - Same as Pin 2
Pin 6 - Do Not Use ^e	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
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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.

