

6AL3

Half-Wave Vacuum Rectifier

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

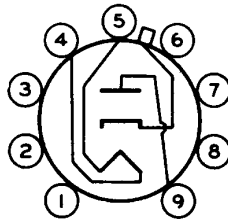
Heater Characteristics and Ratings (*Design-Center Values*):

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	1.550	amp
Peak heater-cathode voltage	6600 max.	volts
Direct Interelectrode Capacitances (Approx.): ^a		
Plate to cathode and heater	8.6	μμf
Heater to cathode	2	μμf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3-1/2"
Maximum Seated Length	3-1/4"
Diameter	0.750" to 0.875"
Bulb	T6-1/2
Cap	Skirted Miniature (JEDEC No.C1-2)
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9CB

Pin 1 - Do Not Use^b
Pin 2 - Same as Pin 1
Pin 3 - Same as Pin 1
Pin 4 - Heater
Pin 5 - Heater



Pin 6 - Same as Pin 1
Pin 7 - Same as Pin 1
Pin 8 - Same as Pin 1
Pin 9 - Plate
Cap - Cathode

DAMPER SERVICE

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system^c

PEAK INVERSE PLATE VOLTAGE (Absolute-maximum value) ^d	7500 ^e max.	volts
PEAK PLATE CURRENT	550 max.	ma
DC PLATE CURRENT	220 max.	ma
PLATE DISSIPATION	5 max.	watts

^a Without external shield.

^b Socket terminals 1,2,3,6,7, and 8 should not be used as tie points.

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

^d This rating is applicable where the duty cycle 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.

^e Under no circumstances should this absolute-maximum value be exceeded.



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