## Half-Wave Vacuum Rectifier

Electrical:	
Filament Characteristics and Rat Voltage (AC or DC) Current at filament volts = 1. Direct Interelectrode Capacitanc (Approx.): <sup>a</sup> P to F	$1.25 \pm 0.2$ volts $25020$
Mechanical:	
Base Small-Button Duod	
Internal Shield  Pin 2-Do Not Useb  Pin 3-Do Not Useb  Pin 4-See NOTE  Pin 5-Do Not Useb  Pin 6-Do Not Useb  Pin 7-Do Not Useb  Pin 8-Do Not Useb  Pin 9-Do Not Useb  Pin 9-Do Not Useb  Pin 10-See NOTE  Pin 11-Do Not Useb	IC F IC
	under conditions specified in Operating Considerations

## PULSED-RECTIFIER SERVICE

Maximum	Ratings,	Design	-Ma	xi	mum	Va	lu	es:			
	For oper	ration i	n c	5	25-l	lin	е,	30	-f <b>r</b>	ame system <sup>c</sup>	
Total DC Peak Pla	ate Curre	peak <sup>o</sup>  ent						 	•	26000 max. 22000 max. 50 max. 0.5 max.	volts ma

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma. = 7 . . . .

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



volts

225

<sup>a Without external shield.
b Socket terminals 2, 3, 5, 6, 7, 8, 9, and 11 should not be used as tie points.</sup> 

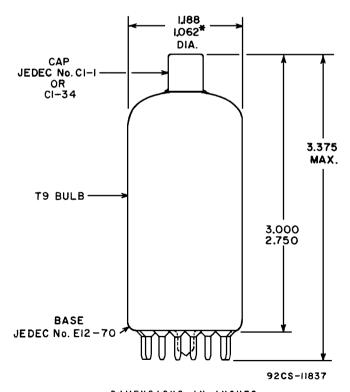
d This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

## OPERATING CONSIDERATIONS

Socket Connections. Socket terminals 4 and 10 may be used as tie points for components at or near the cathode potential; otherwise, do not use.

The high voltages at which the 1AD2 is operated are very dangerous. Great care should be taken in the design of equipment to prevent the operator from coming in contact with these high voltages. Particular care against fatal shock should be taken in the measurement of filament voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

 $\it X-radiation$ . The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce  $\it X-radiation$  which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.



DIMENSIONS IN INCHES

\* Applies to minimum diameter except in area of seal.

