Half-Wave Vacuum Rectifier

For High-Voltage Rectifier Circuits in Color and Black-and-White TV Receivers

Electrical:

	Min.	$A\nu$.	Max.	
Heater Characteristics and Ratings: Voltage (AC or DC) Current at heater volts = 3.15. Direct Interelectrode Capacitance (A	-	0.220	3.65 -	volts amp
Without external shield P to (K+IS+H)			-	рf

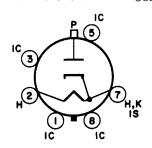
Mechanical:

Operating Position								
Type of Cathode Coated Unipotential								
Maximum Overall Length								
Seated Length								
Maximum Diameter								
Dimensional Outline (JEDEC No.9-51) See General Section								
Bulb								
Cap								
Small with Tubular Support (JEDEC No.C1-34)								
Pages (Alternated).								

Bases (Alternates):
Intermediate—Shell Octal:
6-Pin, Arrangement 1 (JEDEC Group 1, No.B6-8)
Short Intermediate Shell Octal with External Barriers:
6-Pin, Arrangement 1 (JEDEC Group 1, No.B6-60)
Basing Designation for BOTTOM VIEW. 8EZ

Pin 1-Do Not Use
Pin 2-Heater
Pin 3-Do Not Use
Pin 5-Do Not Use
Pin 7-Heater, Cathode,
Internal Shield
Pin 8-Do Not Use

Cap - Plate



PULSED-RECTIFIER SERVICE

Maximum Ratings, Design-Maximum Values:

FOT	operat	10n	ı n	a 5.	25-	111	пe,	. 3	30-	- J 7	an	ne	s y	stem	
Peak Inverse	Plate	Volt	age	e a										30000	volts
Peak Plate C	urrent.													88	ma
Average Plat															

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.

← Indicates a change.

OPERATING CONSIDERATIONS

The high voltages at which the 3A3 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 heater voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

X-radiation. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce 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 protection should be considered in equipment design.

