



6BC7

TRIPLE DIODE

9-PIN MINIATURE TYPE

6BC7

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage	6.3	ac or dc volts
Current	0.450	amp

Direct Interelectrode Capacitances (Approx.):^o

Plate No.1 to Cathode No.1, Heater, and Internal Shield	3.5	μf
Plate No.2 to Cathode No.2, Heater, and Internal Shield	5.5	μf
Plate No.3 to Cathode No.3, Heater, and Internal Shield	3.5	μf

^o with no external shield.

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" \pm 3/32"
Maximum Diameter	7/8"
Bulb	T-6-1/2
Base	Small Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW	9R

Pin 1 - Cathode of Diode No.3		Pin 6 - Plate of Diode No.2
Pin 2 - Plate of Diode No.3		Pin 7 - Cathode of Diode No.2
Pin 3 - Internal Shield		Pin 8 - Plate of Diode No.1
Pin 4 - Heater		Pin 9 - Cathode of Diode No.1
Pin 5 - Heater		

EACH DIODE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	330 max.	volts
PEAK PLATE CURRENT ^o	54 max.	ma
DC OUTPUT CURRENT	12 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 max.	volts

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Av.	Max.	
Heater Current	1	0.410	0.450	0.490	amp
Plate Current (1) (Each Unit)	1,2	-	15	21	μamp

^o In rectifier service, the minimum total effective plate-supply impedance per plate is 560 ohms.

MARCH 1, 1954

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6BC7



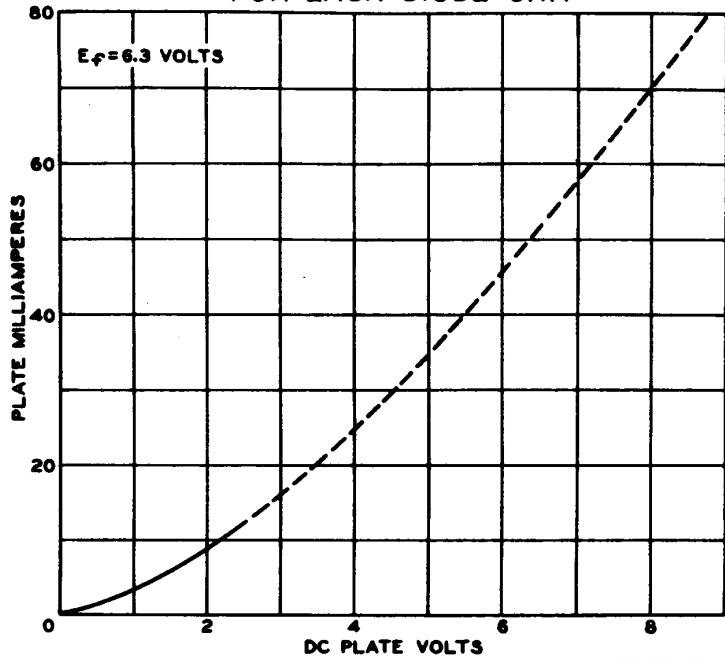
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TRIPLE DIODE

	Note	Min.	Av.	Max.	
Plate Current (2) (Each Unit)	1,3	18	35	65	ma
Ratio of Plate Current of Unit No.3 to Plate Current of Unit No.1 .	1,3	0.77	1	1.3	

Note 1: With 6.3 volts ac or dc on heater.
Note 2: With plate voltage of 0 volts, and plate load resistance of 40000 ohms. Each unit tested separately.
Note 3: With plate voltage of 5 volts and no plate load resistance. Each unit tested separately.

AVERAGE PLATE CHARACTERISTIC
FOR EACH DIODE UNIT



92CS-8219

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