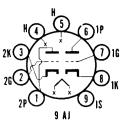


SYLVANIA TYPE 6B78

4B78

MEDIUM MU DUO TRIODE **SEMI-REMOTE CUTOFF**



MECHANICAL DATA

Bulb	T-6½
BulbBase	E9-1, Miniature Button 9-Pin
Outline	6-2
Basing	9AJ
Cathode	
Mounting Position	Aný

ELECTRICAL DATA

HEATER CHARACTERISTICS	4BZ8	6BZ8
Heater Voltage (ac or dc)	600 11	6.3 Volts 400 Ma Seconds
Heater Negative with Respect to Cathode		200 Volts 200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)3

Cascode Operation	110. 1	140. 2
Grid to Plate		— μμf
Plate to Cathode		0.15 μμf
Triode No. 1 Plate to Triode No. 2 Plate	0.010	μμf
RATINGS ¹ (Design Maximum Values)		
Plate Voltages		250 Volts Max.
Plate Dissipation		

Section No. 1

Section

20 Ma Max. 0.1 Megohm Max.

CHARACTERISTICS

Seconda Omenation

Class A ₁ Amplifier	
Plate Voltage	125 Volts
Cathode Resistor	
Plate Current	
Transconductance	8000 Ohms
Amplification Factor	45
Plate Resistance	5600 Ohms
Grid Voltage (approx.) for Gm = 50 \(\mu\)mhos	-13 Volts
Cascode Operation at Eb = 250 Volts, $Ec_1 = -0.5$ Volts	
Transconductance	10,000 μmhos
Plate Current	15 Ma

NOTES:

- 1. Heater Warm-up Time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater
- 2. Design-Maximum Ratings are the limiting values expressed with respect to bogie tubes at which satisfactory tube life can be expected to occur. To obtain satisfactory circuit performance, therefore, the equipment designer must establish the circuit design so that no design-maximum value is exceeded with a bogie tube under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, and environmental conditions.
- 3. Use external shield No. 315.

APPLICATION

The Sylvania Type 6BZ8 is a miniature, medium mu, semi-remote cutoff double triode designed for use in low noise VHF amplifier application and particularly for cascode operation.

The 4BZ8 is identical to the 6BZ8 except for heater characteristics. The 4BZ8 has a 600 ma heater and controlled heater warm-up time and is intended for use in

series heater string television receivers.