

ELECTRONIC TUBE REFERENCE

6BM5

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Indirectly heated power pentode for moderate audio-frequency output amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BZ	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7BZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	A	G1 – Control Grid	CONNECTED • verified
PIN2 – Pin 2	A	G3 – Suppressor Grid	CONNECTED • verified
PIN2 – Pin 2	A	K – Cathode	CONNECTED • verified
PIN3 – Pin 3	–	H – Heater	CONNECTED • verified
PIN4 – Pin 4	–	H – Heater	CONNECTED • verified
PIN5 – Pin 5	A	P – Plate (Anode)	CONNECTED • verified
PIN6 – Pin 6	A	G2 – Screen Grid	CONNECTED • verified
PIN7 – Pin 7	A	G1 – Control Grid	CONNECTED • verified

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.007 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	2 W
<i>Promoted from the printed maximum-rating/characteristic columns; additional operating-point data retained as section parameters.</i>	

Indirectly heated power pentode intended for audio-frequency output amplification.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Control-grid voltage	-6 V	ClassA
Plate current	30 mA	ClassA
Screen current	3 mA	ClassA
Power output	3.5 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	60000 Ω	ClassA
Transconductance	7000 μS	ClassA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 MAZDA BELVU

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage secrrecerernseriieenserecncoce VÊ	6.3 V	—
Heater current ...æIf	450 mA	—
Dissipation d'ANOd@ ssereeseeensereenencessercecen. Pă	9 W	—
Screen-grid dissipation Ė..... ceseerenverresessenseccienes P 8	2 W	—
Tension de crête entre filament et cathode 0 VfK	50 V	—
Tension d'ANOdE ... v.sercrerirenseenmennentesesressensnoncemaseesseveess V	250 V	—
Screen-grid voltage Vg	250 V	—
Tension de grille n° 1. Ve	-6 V	—
Plate current à signal nul aenaserserrennecnaerencrsecerencers 10 SI0	30 mA	—
Coutant de grille n° 2 à signal nul mrrsseesesesecemesses 182 SiS0	3 mA	—
Transconductancec aacnsasncesessncensecccosemerecanaecenseuneneese 1D	7 mA/V	—
Résistance de charge d'anode,..... Ra	7 kΩ	—
Tension d'ENTRÉEsesricreimenentesençesentesecene VE	4.2 Veff	—
Puissance d@€ S0rtIE ussesseeessessenesesssssinmes. PS	3.5 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance d'entrée ...n CE	8 pF	InterelectrodeCapacitance
Capacitance de sortie Cs	5.5 pF	InterelectrodeCapacitance

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

