ELECTRONIC TUBE REFERENCE

6BQ6GTA

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

> Improved glass beam-power horizontal-output tube for television receivers, rated for approximately 11 W plate dissipation and positive plate pulses above 6 kV.

General characteristics

BASE DESIGNATION	6AM	**BASE PINS**	8
NOMINAL HEATER	6.3 V / 1.2 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

6AM - Terminal pinout

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — Pin 1	—	—	NC · verified
PIN2 — Pin 2	—	H — Heater	CONNECTED · verified
PIN3 — Pin 3	—	—	NC · verified
PIN4 — Pin 4	A	G2 — Screen Grid	CONNECTED · verified
PIN5 — Pin 5	A	G1 — Control Grid	CONNECTED · verified
PIN7 — Pin 7	—	H — Heater	CONNECTED · verified
PIN8 — Pin 8	A	BP — Beam-Forming Plate	CONNECTED · verified
PIN8 — Pin 8	A	K — Cathode	CONNECTED · verified

TERMINAL	SECTION	ELEMENT	STATUS
CAP1 — Top cap	A	P — Plate (Anode)	CONNECTED · verified

Section ratings

SECTION1 Beam Power	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	110 mA

Promoted from the printed maximum-rating/characteristic columns; additional operating-point data retained as section parameters.

> Beam-power horizontal-deflection output tube for television receivers.

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 · Beam Power

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	HorizontalDeflection
Screen voltage	150 V	HorizontalDeflection
Control-grid voltage	-22.5 V	HorizontalDeflection
Plate current	55 mA	HorizontalDeflection
Screen current	2.1 mA	HorizontalDeflection
Positive pulse plate voltage maximum	6100 V	HorizontalDeflection
Plate dissipation maximum	11 W	HorizontalDeflection
Screen dissipation maximum	2.5 W	HorizontalDeflection
DC cathode current maximum	110 mA	HorizontalDeflection

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	20000 Ω	HorizontalDeflection
Transconductance	5500 µS	HorizontalDeflection

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater voltage	**6.3 V**	—
Heater current	**1.2 A**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum plate voltage	**700 V**	—
Maximum screen voltage	**175 V**	—
Maximum plate dissipation	**11 W**	—
Maximum screen dissipation	**2.5 W**	—
Maximum positive control-grid voltage	**0 V**	—

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Service	**Horizontal deflection amplifier**	—