



ELECTRONIC TUBE REFERENCE

6BK4A

Triode - HV Shunt Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-voltage triode designed for electronic voltage-regulator service, controlling or shunting current to stabilize demanding power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0002 S
AMPLIFICATION FACTOR	2000
MAXIMUM PLATE VOLTAGE	27000 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	1.6 mA
High-voltage shunt-regulator beam triode.	

High-voltage low-current beam triode for shunt-regulator service in color television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Unregulated DC Supply Voltage Maximum	60000 V	ShuntVoltageRegulator
Regulated DC Output Voltage	25000 V	LoadCurrent=0mA
UnregulatedSupplyVoltageTypical	36000 V	ShuntVoltageRegulator



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
THE bBK	4 A	THE bBK4A IS A SHARP CUT-OFF BEAM TRIODE FOR HIGH-VOLTAGE. LOW-CURRENT APPLI-
LIMITS OF APPLIED VOLTAGE - AC OR DC	0.6 V	Average Characteristics LIMITS OF APPLIED VOLTAGE - AC OR DC 6.3 '- 0.6 VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	200 V	Average Characteristics HEATER NEGATIVE WITH RESPECT TO CATHODE 200 VOLTS

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID TO PLATE: G TO P	0.03 pF	Capacitances GRID TO PLATE: G TO P 0.03 pf

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID TO CATHODE AND HEATER: G TO (K+H)	2.6 pF	Capacitances GRID TO CATHODE AND HEATER: G TO (K+H) 2.6 pf
PLATE TO CATHODE AND HEATER: P TO (K+H)	1 pF	Capacitances PLATE TO CATHODE AND HEATER: P TO (K+H) 1.0 pf

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM DC PLATE VOLTAGE	27 V	Maximum Ratings MAXIMUM DC PLATE VOLTAGE 27.000 VOLTS
MAXIMUM UNREGULATED DC SUPPLY VOLTAGE	60 V	Maximum Ratings MAXIMUM UNREGULATED DC SUPPLY VOLTAGE 60.000 VOLT`.
MAXIMUM PLATE DISSIPATION	30 W	Maximum Ratings MAXIMUM PLATE DISSIPATION 30 WATT`.
MAXIMUM DC PLATE CURRENT	1.6 mA	Maximum Ratings MAXIMUM DC PLATE CURRENT 1.6 MA
DC VOLTAGE	36 V	Typical Operating Conditions DC VOLTAGE 36.000 VOLTS
EQUIVALENT RESISTANCE	11 Mohm	Typical Operating Conditions EQUIVALENT RESISTANCE 11 MEGOHMS
EQUIVALENT RESISTANCE OF SUPPLY	1 ohm	Typical Operating Conditions EQUIVALENT RESISTANCE OF SUPPLY 1.000 OHMS
FOR LOAD CURRENT OF	1 mA	Typical Operating Conditions FOR LOAD CURRENT OF 1 MA. 45 µAMP.
FOR LOAD CURRENT OF 0 MA	25 V	Typical Operating Conditions FOR LOAD CURRENT OF 0 MA. 25.000 VOLTS
FOR LOAD CURRENT OF	1 mA	Typical Operating Conditions FOR LOAD CURRENT OF 1 MA. 24.500 VOLT
FOR LOAD CURRENT OF	24.5 V	Typical Operating Conditions FOR LOAD CURRENT OF 1 MA. 24.500 VOLT

TUBE TINKER

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

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