



ELECTRONIC TUBE REFERENCE

36AM3B

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated half-wave rectifier with a controlled-warmup tapped heater for series-string equipment and panel-lamp shunting. It is a conventional power-supply rectifier rather than a damper diode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5BQ	BASE PINS	7
NOMINAL HEATER	36 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5BQ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – HCT	–	HCT – Heater Center Tap	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	265 V
NOMINAL OUTPUT CURRENT	82 mA
PEAK FORWARD CURRENT	580 mA
FORWARD VOLTAGE DROP	16 V
MAXIMUM HEATER-CATHODE VOLTAGE	250 V
WARM-UP TIME	20 s
<i>half-wave rectifier</i>	

Half-wave rectifier with 100 mA controlled-warmup tapped heater usable as a panel-lamp shunt. It uses a nominal 36 V, 0.1 A heater. The supplied datasheet was used for ratings, characteristics, and typical operating data.



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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	20 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate supply voltage RMS	120 V	CapacitorInputFilter
DC output current	75 mA	CapacitorInputFilter
DC output voltage at filter input	120 V	PanelLampCircuit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifierMaximumPeakInverseVoltage	365 V	Published datasheet value
RectifierNominalOutputCurrent	82 mA	Published datasheet value
RectifierPeakForwardCurrent	530 mA	Published datasheet value
Heater Voltage	36 V	Nominal heater rating
Heater Current	100 mA	Nominal heater rating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Tap Voltage	32 V	Pins3And6

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warmup Time	20 s	—
TubeVoltageDropAt150mA	16 V	PlateCurrent=150mA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	365 V	—
DC Output Current	82 mA	—
Typical DC Output Current	75 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Warm-up Time	20 s	—