

ELECTRONIC TUBE REFERENCE

6BJ3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Compactron single heater-cathode diode designed for television horizontal-deflection damper service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12BL	BASE PINS	12
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12BL - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN4	–	P – Plate (Anode)	CONNECTED
PIN6	–	K – Cathode	CONNECTED
PIN7	–	–	IC
PIN8	–	–	IC
PIN9	–	P – Plate (Anode)	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	4 W
PEAK INVERSE VOLTAGE	3300 V
NOMINAL OUTPUT CURRENT	140 mA
PEAK FORWARD CURRENT	840 mA
FORWARD VOLTAGE DROP	21 V
MAXIMUM HEATER-CATHODE VOLTAGE	3300 V
<i>Damper-diode PIV/current ratings are preserved as parameters rather than rectifier-specific promoted fields.</i>	

Half-wave vacuum rectifier for television damper service. The supplied datasheet was read for heater data, maximum ratings, operating characteristics, and interelectrode capacitances where published.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	3300 V	—
Steady State Peak Plate Current	840 mA	—
DC Output Current	140 mA	—
HeaterCathodeVoltageHeaterPositiveDC	100 V	—
HeaterCathodeVoltageHeaterPositiveTotalDCPeak	300 V	—
HeaterCathodeVoltageHeaterNegativeDC	600 V	—
HeaterCathodeVoltageHeaterNegativeTotalDCPeak	3300 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	21 V	PlateCurrent=250mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode To Plate And Heater Capacitance	8 pF	—
Plate To Cathode And Heater Capacitance	5.5 pF	—
Heater To Cathode Capacitance	2.7 pF	—



1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7
Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or OC) t	6.3 V	PublishedColumn1
Voltage (AC or OC) t	0.6 V	PublishedColumn2
Heater negative with respect to cathodes bmax	3300 V	—
Heater positive with respect to cathode emax	300 V	—
b The do component must not exceed	600 V	—
The do component must not exceed	100 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
K to (P,H)	8 pF	—
H to K	2.7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltages max	3300 V	—
Peak Plate Current max	840 mA	—
DC Plate Current max	140 mA	—
Plate Dissipation max	4 W	—

TUBE TINKER

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

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