



ELECTRONIC TUBE REFERENCE

6BR3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Miniature heater-cathode damping diode designed for television horizontal-deflection service, with controlled warm-up and high inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E9-11	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	6.5 W
PEAK INVERSE VOLTAGE	5500 V
NOMINAL OUTPUT CURRENT	200 mA
PEAK FORWARD CURRENT	1.2 A
FORWARD VOLTAGE DROP	19 V
WARM-UP TIME	11 s
<i>TV damper service: peak inverse plate voltage 5500 V; peak plate current 1.2 A; DC plate current 0.2 A.</i>	

Miniature type used as damper tube in horizontal- deflection circuits of television receivers. Outlines section, 7D; requires miniature 9-contact socket. Type 17BR3/17RK19 is identical with type 6BR3/6RK19 except for heater ratings. 6BR3/ 17BR3/ 6RK19 I7RK19

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	16.8 volts	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry
Heater Warm-up Time	11 seconds	Published value from supplied target entry
Peak Inverse Plate Voltage*	5500 volts	Published value from supplied target entry
Peak Plate Current	1200 mA	Published value from supplied target entry
Average Plate Current	200 mA	Published value from supplied target entry
Plate Dissipation	6.5 watts	Published value from supplied target entry
Tube Voltage Drop for plate current of	19 mA	Published value from supplied target entry
# Pulse duration must not exceed	10	Published value from supplied target entry
Heater Current	0.45 amperes	Published value from supplied target entry
Heater Warm-up Time (Average) –	11 seconds	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode and Heater	6.5 pF	Published value from supplied target entry

1982 Toshiba

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

1982 TOSHIBA
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	5500 V	TVDamperService
Peak Plate Current	1.2 A	TVDamperService
DC Plate Current	200 mA	TVDamperService
Plate Dissipation	6.5 W	TVDamperService

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	19 V	Ib=250mA DC

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-Cathode Capacitance	3 pF	—
Cathode-to-Plate-and-Heater Capacitance	10.5 pF	—
Plate-to-Cathode-and-Heater Capacitance	8.5 pF	—