

ELECTRONIC TUBE REFERENCE

6V3A

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

High-current television damper diode designed for horizontal-deflection service with substantial peak inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BD	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.75 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9BD - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN2 – P	A	P – Plate (Anode)	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN7 – P	A	P – Plate (Anode)	CONNECTED
PIN9 – P	A	P – Plate (Anode)	CONNECTED
CAP1 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	135 mA
PEAK INVERSE VOLTAGE	6000 V
NOMINAL OUTPUT CURRENT	135 mA
PEAK FORWARD CURRENT	800 mA
FORWARD VOLTAGE DROP	19 V
MAXIMUM HEATER-CATHODE VOLTAGE	6750 V
<i>Television damper diode.</i>	

High-current television damper diode with high peak inverse voltage capability.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate dissipation maximum	2.7 W	—



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 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	6000 V	TVDamper
Maximum DC output current	135 mA	TVDamper
Maximum peak current	800 mA	TVDamper

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	19 V	At 250 mA DC



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC Plate Voltage RMS	3250 V	—



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum steady-state peak current	600 mA	DamperService
Maximum AC plate voltage RMS	350 V	PowerRectifierService
Maximum DC output current	125 mA	PowerRectifierService
Filter input capacitor	20 uF	PowerRectifierService
Maximum peak inverse voltage	6000 V	DamperService
Maximum peak heater-cathode voltage	6750 V	HeaterNegative



SOURCE DATA APPENDIX

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
Heater voltage	6.3 V	—
Heater current	1.75 A	—
Peak inverse plate voltage	6000 V	DamperService
Peak plate current	800 mA	DamperService
DC plate current	135 mA	DamperService
Peak heater-cathode voltage heater negative	-6750 V	—
Peak heater-cathode voltage heater positive	300 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Television damper service	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-cathode-and-heater capacitance	8 pF	—