



ELECTRONIC TUBE REFERENCE

25DL3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Television horizontal-deflection damper rectifier with a series-string heater, designed to return stored sweep energy while tolerating high repetitive inverse voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	25.2 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE DISSIPATION	11 W
PEAK INVERSE VOLTAGE	6500 V
NOMINAL OUTPUT CURRENT	400 mA
PEAK FORWARD CURRENT	1.8 A
FORWARD VOLTAGE DROP	25 V
MAXIMUM HEATER-CATHODE VOLTAGE	6500 V
WARM-UP TIME	11 s
<i>Published ratings, characteristics, operating conditions, and capacitances extracted from the approved source; pulse-only values remain explicit parameter rows.</i>	

Half-wave vacuum rectifier used as a damper tube in television receivers.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
: :	2.3 V	Other;PublishedValue1
: :	25.2 V	Other;PublishedValue2
Heater Warm-up Time (average) –	11 s	Other
Peak Inverse Plate Voltage	6500 V	Section1;Promoted
Average Plate Current	400 mA	Section1;Promoted
Peak Plate Current	1.8 A	Section1;Promoted

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to Plate and Heater	17 pF	Capacitance
Heater to Cathode	4.4 pF	Capacitance
Peak Inverse Plate Voltage*	6500 V	Capacitance
Peak Plate Current	1800 mA	Capacitance
Average Plate Current	400 mA	Capacitance
Plate Dissipation	11 W	Capacitance
Peak value	300 V	Capacitance;PublishedValue1
Peak value	-6500 V	Capacitance;PublishedValue2
Average value	-900 V	Capacitance
Tube Voltage Drop for plate current of	800 mA	Capacitance;PublishedValue1
Tube Voltage Drop for plate current of	25 mA	Capacitance;PublishedValue2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	25 V	Section1;Promoted

TUBE TINKER

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

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