ELECTRONIC TUBE REFERENCE

6DL3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Novar half-wave vacuum rectifier designed as a damper diode in television horizontal-deflection circuits.

General characteristics

BASE DESIGNATION	9GD	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 2.3 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 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
Half-wave vacuum rectifier used in television horizontal-deflection damper service.	

Half-wave vacuum rectifier used as a damper tube in television receivers. It is an explicit heater variant/co-designation in 25DL3.pdf.

SOURCE OPERATING CONDITIONS

1975 RCA RC30

SOURCE PDF

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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