

ELECTRONIC TUBE REFERENCE

6DQ3

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

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

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FX	BASE PINS	12
NOMINAL HEATER	6.3 V / 1.8 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12FX - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN4	–	P – Plate (Anode)	CONNECTED
PIN5	–	–	IC
PIN6	–	–	IC
PIN7	–	K – Cathode	CONNECTED
PIN8	–	–	IC
PIN9	–	–	IC
PIN10	–	P – Plate (Anode)	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM PLATE DISSIPATION	6.5 W
PEAK INVERSE VOLTAGE	6000 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	2.1 A
FORWARD VOLTAGE DROP	25 V
WARM-UP TIME	11 s
<i>Promoted from published ratings/characteristics where directly applicable; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

Half-wave vacuum rectifier used as a damper tube in television horizontal-deflection circuits. It is an explicit heater variant/co-designation in 25CG3.pdf.



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
Heater Warm-up Time –	11 s	Other;PublishedValue1
Heater Warm-up Time –	11 s	Other;PublishedValue2
Peak Inverse Plate Voltage*	5000 V	MaximumRating
Peak Plate Current	2100 mA	MaximumRating
Average Plate Current	300 mA	MaximumRating;PublishedValue1
Average Plate Current	350 mA	MaximumRating;PublishedValue2
Plate Dissipation	6.5 W	MaximumRating
Peak value	-5000 V	MaximumRating
Average value	100 V	MaximumRating;PublishedValue1
Average value	900 V	MaximumRating;PublishedValue2
Tube Voitage Drop for plate current of	700 mA	MaximumRating;PublishedValue1
Tube Voitage Drop for plate current of	25 mA	MaximumRating;PublishedValue2
Peak Inverse Plate Voltage	6000 V	Section1;Promoted

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker