



ELECTRONIC TUBE REFERENCE

CK1005

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Gas-filled full-wave rectifier with ionically heated cathode for vibrator and battery-operated power supplies. Rated for approximately 450 V peak inverse voltage and 70 mA DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8Y	BASE PINS	8
NOMINAL HEATER	6.3 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8Y - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN1 – SH	A	SH – Internal Shield	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN4 – G1	A	G1 – Control Grid	CONNECTED
PIN5 – K	A	K – Cathode	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	450 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	210 mA
FORWARD VOLTAGE DROP	20 V
<i>Promoted only from clearly identified printed ratings/characteristics; additional operating and limiting values retained in TUBE_SECTION_PARAMETER.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	450 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	210 mA
FORWARD VOLTAGE DROP	20 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Gas-filled full-wave rectifier with ionically heated cathode for vibrator and battery power supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	450 V	FullWave;Gas
Peak plate current per plate maximum	210 mA	FullWave;Gas
DC output current maximum	70 mA	FullWave;Gas

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	20 V	FullWave;Gas

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage maximum	450 V	FullWave;Gas
Peak plate current per plate maximum	210 mA	FullWave;Gas
DC output current maximum	70 mA	FullWave;Gas

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	20 V	FullWave;Gas

TUBE TINKER

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

