



ELECTRONIC TUBE REFERENCE

RK872A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Raytheon directly heated mercury half-wave rectifier for high-voltage supplies. Its heavy filament and low arc voltage provide substantial industrial current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 7.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
FORWARD VOLTAGE DROP	10 V
<i>Published rectifier maximum peak inverse voltage, peak plate current, DC output current and average tube drop reviewed.</i>	

RK872A is a Raytheon half wave—mercury rectifier with published peak-inverse-voltage, peak-current, DC-output-current and tube-drop ratings.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	5 V	HalfWave MercuryVapor
Filament/heater current	7.5 A	HalfWave MercuryVapor
Average tube voltage drop	10 V	HalfWave MercuryVapor

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	10000 V	HalfWave MercuryVapor
Peak plate current per plate	5000 mA	HalfWave MercuryVapor
DC output current	125 mA	HalfWave MercuryVapor

TUBE TINKER

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and their source documents.

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