

ELECTRONIC TUBE REFERENCE

3B23

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Twin-diode full-wave high-vacuum rectifier for approximately 1 kW DC power supplies. Rated for roughly 3.6 kV peak inverse voltage, 200 mA DC output, and 600 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2.5 V / 8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	3600 V
NOMINAL OUTPUT CURRENT	200 mA
PEAK FORWARD CURRENT	600 mA
WARM-UP TIME	30 s
Published ratings and characteristics promoted where clearly stated.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	3600 V
NOMINAL OUTPUT CURRENT	200 mA
PEAK FORWARD CURRENT	600 mA
WARM-UP TIME	30 s
Second physical rectifier section; electrical properties populated from the documented identical section.	

Twin-diode full-wave high-vacuum rectifier for approximately 1 kW DC power supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	2.5 V	Published nominal value
Heater or filament current	8 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	3600 V	Published rectifier rating
DC output current	200 mA	Published rectifier rating
Peak forward current	600 mA	Published rectifier rating

1938 RAYTHEON

Section 2 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	2.5 V	Published nominal value
Heater or filament voltage	2.5 V	Published nominal value
Heater or filament current	8 A	Published nominal value
Heater or filament current	8 A	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	3600 V	Published rectifier rating
Peak inverse voltage	3600 V	Published rectifier rating