

ELECTRONIC TUBE REFERENCE

6887

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

RCA twin diode designed specifically for switching circuits in medium-speed electronic computers, using a relatively low-wattage heater for economical digital operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	360 V
NOMINAL OUTPUT CURRENT	10 mA
PEAK FORWARD CURRENT	30 mA
MAXIMUM HEATER-CATHODE VOLTAGE	150 V
Representative electrical row for repeated identical physical sections.	

SECTION2 Diode	
No fixed ratings recorded.	
Physical second diode section added during approved section-structure reconciliation.	

The RCA 6887 is a twin diode for switching circuits in medium-speed electronic computers; low-wattage heater.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Diode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Diode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	200 mA	Nominal
Maximum peak inverse plate voltage	360 V	Promoted published value
Maximum heater-cathode voltage	150 V	Promoted published value
PEAK INVERSE PLATE VOLTAGE	360 V	Maximum Ratings, Absolute Values:
PEAK PLATE CURRENT■	30 mA	Maximum Ratings, Absolute Values:
DC PLATE CURRENT	10 mA	Maximum Ratings, Absolute Values:
Heater negative with respect to cathode.	150 V	Maximum Ratings, Absolute Values:

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater positive with respect to cathode.	150 mA	Maximum Ratings, Absolute Values:
Heater Current	220 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	6.3 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	150 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Under the following conditions: heater volts =	7.5 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward/plate current	30 mA	Promoted published value
Nominal/DC output current	10 mA	Promoted published value
Voltage	6.3 V	—
Current	200 mA	—
Plate Current (Each unit)	9 mA	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	2 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
Note	300 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN
with respect to cathode, and plate volts =	0 V	CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN