



ELECTRONIC TUBE REFERENCE

6203

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Miniature twin-diode full-wave high-vacuum rectifier for AC and storage-battery-operated equipment, including mobile and aircraft applications. Rated for approximately 1.25 kV peak inverse voltage and 70 mA nominal output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E9-1	BASE PINS	9
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	270 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
One of two equivalent full-wave rectifier diode sections; identical-section compression applied.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	270 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

The GL-6203 is a miniature twin-diode full-wave high-vacuum rectifier for AC and storage-battery-operated power supplies, designed for dependable service in mobile and aircraft applications and usable at altitudes up to 60,000 feet.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	70 mA	FullWave
Peak inverse voltage	1250 V	FullWave
RMS supply voltage per plate	325 V	FullWave
Peak current per plate	270 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	22 V	At70mADC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACPlateSupplyVoltagePerPlateRMS	325 V	CapacitorInputFilter
ACPlateSupplyVoltagePerPlateRMS	450 V	ChokeInputFilter
DC Output Current	70 mA	CapacitorInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Output Current	70 mA	ChokeInputFilter
DC Output Voltage At Filter Input	355 V	CapacitorInputFilter
DC Output Voltage At Filter Input	375 V	ChokeInputFilter
TotalPlateSupplyResistancePerPlate	150 ohm	CapacitorInputFilter
Filter Input Choke	8 H	ChokeInputFilter
The GL	6203 C	—
Maximum Duration	0.2 C	Rectifier Service - Sinusoidal Supply Voltages, Frequency
Bulb Temperature at Hottest Point (Absolute Maximum)	200 C	Rectifier Service - Sinusoidal Supply Voltages, Frequency
PIN	2 C	—
PIN	3 C	—
PIN	6 C	—
PIN	8 C	—
Ef	6.3 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	22 V	AppliedDC=70mA per plate

TUBE TINKER

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