



ELECTRONIC TUBE REFERENCE

6087

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Rugged full-wave high-vacuum heater-cathode rectifier for reliable power supplies with controlled heating time. Strengthened construction and cathode isolation suit demanding professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5L	BASE PINS	5
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

5L - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN2 – H	–	H – Heater	CONNECTED
PIN4 – P1	A	P – Plate (Anode)	CONNECTED
PIN6 – P2	A	P – Plate (Anode)	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	50 V
<i>Representative row for two rectifier diode sections sharing the published cathode/filament system.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	50 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Rugged full-wave high-vacuum heater-cathode rectifier for power supplies with controlled heating time.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	Published heater/filament rating
Heater/filament current	2 A	Published heater/filament rating
Tube voltage drop	50 V	At 125 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	125 mA	RectifierService
Peak inverse voltage	1400 V	RectifierService
RMS supply voltage per plate	350 V	RectifierService
Peak current per plate	375 mA	RectifierService



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
HeaterOrFilamentVoltageNominal	5 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentCurrentNominal	2 A	—
FrequencyRange25To1000CyclesPerSecondValue1	25 s	Published datasheet table
FrequencyRange25To1000CyclesPerSecondValue2	1000 s	Published datasheet table
SteadyStatePeakPlateCurrentPerPlate375Milliamperes	375 mA	Published datasheet table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACPlateSupplyVoltagePerPlateRMS3590500VoltsValue1	3590 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMS3590500VoltsValue2	500 V	Published datasheet table
FilterInputCapacitor10Microfarads	10	Published datasheet table
FilterInputChoke10Henrys	10 H	Published datasheet table
TotalPlateSupplyResistancePerPlate130Chms	130	Published datasheet table
DCOutputCurrent125125MilliamperesValue1	125 mA	Published datasheet table
DCOutputCurrent125125MilliamperesValue2	125 mA	Published datasheet table
DCOutputVoltageAtFilterInput315390VoltsValue1	315 V	Published datasheet table
DCOutputVoltageAtFilterInput315390VoltsValue2	390 V	Published datasheet table
RelatedAndAreAlsoDependentOnWhetherAChokeOrCapacitorInputFilterIsEm	1	Published datasheet table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	5 V	—
HeaterOrFilamentCurrentNominal	2 A	—
FrequencyRange25To1000CyclesPerSecondValue1	25 s	Published datasheet table
FrequencyRange25To1000CyclesPerSecondValue2	1000 s	Published datasheet table
SteadyStatePeakPlateCurrentPerPlate375Milliamperes	375 mA	Published datasheet table