



ELECTRONIC TUBE REFERENCE

GZ33

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Indirectly heated full-wave rectifier for high-current electronic power supplies. Its heavy five-volt heater supports substantial DC output in amplifier and professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	300 mA
PEAK FORWARD CURRENT	750 mA
<i>Published Mullard ratings, characteristics, operating conditions, and capacitances extracted from supplied datasheet.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	300 mA
PEAK FORWARD CURRENT	750 mA
<i>Physical rectifier section 2; identical section values duplicated per physical-section policy.</i>	

FULL-WAVE RECTIFIER Indirectly heated full-wave rectifier GZ33 with 5-volt

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	3 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	1400 V	—
PeakAnodeCurrentMaximum	750 mA	—
SurgeCurrentMaximum	2.5 A	—
RMSInputVoltagePerAnodeMaximum	500 V	CapacitorInputFilter
DCOutputCurrentMaximum	250 mA	CapacitorInputFilter
ReservoirCapacitanceMaximum	60 uF	CapacitorInputFilter
RMSInputVoltagePerAnodeMaximum	500 V	ChokeInputFilter
DCOutputCurrentMaximum	300 mA	ChokeInputFilter
MinimumChokeInductance	10 H	ChokeInputFilter
DC Output Voltage	493 V	CapacitorInputFilter;RMSInput=500V;C=60uF
DC Output Voltage	421 V	ChokeInputFilter;RMSInput=500V;L=10H

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
P.I.V. max	1.4 V	Characteristic
Vat r.m.s.) max	500 V	Characteristic
Iout max	250 mA	Characteristic
Val r.m .s.) max	500 V	Characteristic

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)