



ELECTRONIC TUBE REFERENCE

RG1240A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Mercury-vapor high-voltage half-wave rectifier, normalized from RG1-240A. Its heavy filament and low arc voltage provide ampere-class industrial power conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 2.7 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	250 mA
PEAK INVERSE VOLTAGE	6500 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	1.25 A
FORWARD VOLTAGE DROP	12 V
<i>Gas-discharge device.</i>	

Mercury-vapor high-voltage rectifier normalized from printed type RG1-240A, rated for 6.5 kV peak inverse voltage.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	6500 V	—
Peak Anode Current	1250 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Mullard Industrial Rectifiers

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

1962 MULLARD INDUSTRIAL RECTIFIERS

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapour	—
Nominal Ignition Voltage	12 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Surge Current	25 A	FaultProtection;MaximumDuration0.1s
Maximum Operating Frequency	150 Hz	—
Condensed Mercury Temperature	25–65 C	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Supply Voltage per Valve RMS	2220 V	SinglePhaseFullWave
DC Output Voltage	2000 V	SinglePhaseFullWave;TwoValves
DC Output Current	500 mA	SinglePhaseFullWave;TwoValves



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Mullard Gas Filled Tubes

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

1971 MULLARD GAS FILLED TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse anode voltage	6.5 kV	—
Maximum average cathode current	1.25 A	—
Maximum surge cathode current	1.25 A	Fault protection
Maximum operating frequency	150 Hz	—
Heater/filament voltage	4 V	—
Heater/filament current	2.7 A	—

TUBE TINKER

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