



ELECTRONIC TUBE REFERENCE

RG41000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Mullard directly heated mercury-vapor rectifier for high-voltage, high-current supplies. Its heavy filament and low arc voltage provide ampere-class industrial output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 6.75 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	13000 V
NOMINAL OUTPUT CURRENT	2.5 A
PEAK FORWARD CURRENT	5 A
FORWARD VOLTAGE DROP	16 V
<i>Mercury-vapour rectifier section.</i>	

The Mullard RG4-1000 is a directly heated mercury-vapour rectifier for high-voltage, high-current power supplies.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	5 V	—
Filament Current	6.75 A	—
Valve Voltage Drop	16 V	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	13000 V	<=150Hz
Peak Anode Current	5 A	—
Mean Anode Current	1.25 A	—
Ambient Temperature Minimum	10 degC	—
Ambient Temperature Maximum	40 degC	—
Condensed Mercury Temperature Minimum	25 degC	—
Condensed Mercury Temperature Maximum	65 degC	—
DC Output Voltage	4140 V	SinglePhaseFullWave; TwoValves
DC Output Current	2.5 A	SinglePhaseFullWave; TwoValves
RMS Input Voltage per Valve	4600 V	SinglePhaseFullWave
Minimum Choke Inductance	2.5 H	SinglePhaseFullWave; ChokeInputFilter
Maximum Filter Capacitance	6 uF	SinglePhaseFullWave

TUBE TINKER

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

