



ELECTRONIC TUBE REFERENCE

RG43000

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated mercury-vapor half-wave rectifier for high-voltage circuits. Its heavy filament and low arc voltage support operating regimes reaching several amperes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 11.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	5 A
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	5 A
PEAK FORWARD CURRENT	20 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	60 s
<i>Gas-discharge device.</i>	

Mercury-vapour half-wave rectifier for high-voltage rectifier circuits, with rating regimes extending to 25 kV peak inverse and 5 A average current. Promoted maxima are independent published maxima; source gives coupled rating regimes: 25 kV/20 A peak/5 A average and 10-15 kV/12 A peak/3 A average.

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	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Surge Current	200 A	PIV2500V;FaultProtection;MaximumDuration0.1s
Cathode Surge Current	120 A	PIV10000to15000V;FaultProtection;MaximumDuration0.1s
Maximum Operating Frequency	150 Hz	—
Condensed Mercury Temperature	25–75 C	PIV2500V
Condensed Mercury Temperature	25–60 C	PIV10000V
Condensed Mercury Temperature	25–55 C	PIV15000V
DC Output Voltage	4800 V	SinglePhaseFullWave;TwoValves;PIV15000V
DC Output Current	6 A	SinglePhaseFullWave;TwoValves;PIV15000V
DC Output Voltage	790 V	SinglePhaseFullWave;TwoValves;PIV2500V
DC Output Current	10 A	SinglePhaseFullWave;TwoValves;PIV2500V

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 average cathode current	12 A	—
Maximum surge cathode current	12 A	Fault protection
Heater/filament voltage	5 V	—
Heater/filament current	11.5 A	—

TUBE TINKER

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

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