



ELECTRONIC TUBE REFERENCE

RR31250A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated inert-gas-filled half-wave rectifier for high-voltage circuits. Its massive filament and gas-assisted conduction provide ampere-class industrial output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 11 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM CATHODE CURRENT	1.25 A
PEAK INVERSE VOLTAGE	13000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
FORWARD VOLTAGE DROP	13 V
WARM-UP TIME	30 s
Gas filling: Inert gas. Absolute ratings include 50 A surge current and 150 c/s maximum operating frequency.	

Inert-gas-filled half-wave rectifier for high-voltage rectifier circuits, rated 13 kV peak inverse and 1.25 A average cathode current. Absolute ratings include 50 A surge current and 150 c/s maximum operating frequency.

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	Inert gas	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Surge Current	50 A	FaultProtection;MaximumDuration0.1s
Maximum Operating Frequency	150 Hz	—
Ambient Temperature	-55–70 C	—
DC Output Voltage	4100 V	SinglePhaseFullWave;TwoValves
DC Output Current	2.5 A	SinglePhaseFullWave;TwoValves