



ELECTRONIC TUBE REFERENCE

RR3250

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Directly heated inert-gas-filled half-wave rectifier for high-voltage circuits with multiple operating regimes. Its gas-assisted construction provides substantial current at multi-kilovolt voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2.5 V / 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	500 mA
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	500 mA
PEAK FORWARD CURRENT	2 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	10 s
Gas filling: Inert gas. Promoted maxima are independent published maxima; 5 kV regime permits 2 A peak/0.5 A average at up to 500 c/s, while 10 kV regime permits 1 A peak/0.25 A average at up to 150 c/s.	

Inert-gas-filled half-wave rectifier for high-voltage rectifier circuits with published 5 kV and 10 kV rating regimes. Promoted maxima are independent published maxima; 5 kV regime permits 2 A peak/0.5 A average at up to 500 c/s, while 10 kV regime permits 1 A peak/0.25 A average at up to 150 c/s.

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 Peak Current	2 A	PIV5000V
Cathode Average Current	500 mA	PIV5000V
Maximum Supply Frequency	500 Hz	PIV5000V
Cathode Peak Current	1 A	PIV10000V
Cathode Average Current	250 mA	PIV10000V
Maximum Supply Frequency	150 Hz	PIV10000V
Cathode Surge Current	20 A	FaultProtection;MaximumDuration0.1s
Ambient Temperature	-55–75 C	—

TUBE TINKER

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