



ELECTRONIC TUBE REFERENCE

G2040I

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
RECTIFIER

Mercury-vapor half-wave rectifier for high-voltage industrial power conversion, using low arc voltage to provide efficient current handling in substantial DC supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 20 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
MAXIMUM CATHODE CURRENT	12 A
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	12 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	15 V
WARM-UP TIME	600 s
Mercury-vapour rectifier; average anode current used as nominal output current.	

Indirectly heated mercury-vapour hot-cathode rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	—
Filament current	20 A	—
Peak inverse voltage	20 kV	—
Peak anode current	40 A	—
Average anode current	12 A	—
Ignition voltage maximum	30 V	—
Warm-up time	600 sec	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop	15 V	—

TUBE TINKER

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and their source documents.

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