

ELECTRONIC TUBE REFERENCE

GXU1

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Xenon-filled half-wave rectifier for high-voltage power conversion, using gas-assisted conduction for low forward drop and substantial current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	10000 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	10 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	10 s

Xenon-filled half-wave rectifier for high-voltage power supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	2.5 V	—
Filament Current	5 A	—
Forward Voltage Drop	12 V	—
Ambient Temperature Range	-55 to +75 C	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Voltage	10000 V	—
Maximum Peak Anode Current	10 A	—
Maximum Average Anode Current	250 mA	—
Maximum Surge Anode Current	20 A	—
Maximum Supply Frequency	150 Hz	—
Minimum Heating Time	10 s	—
Single-Phase Full-Wave DC Output	3200 V	0.5 A output, 10 kV PIV
Three-Phase Full-Wave DC Output	9600 V	0.75 A output, 10 kV PIV