



ELECTRONIC TUBE REFERENCE

F869B

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Directly heated mercury-vapor half-wave rectifier for high-voltage circuits. Its massive filament and low arc voltage provide several amperes of output after proper cathode preheating.

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

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	5 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	15 V
WARM-UP TIME	60 s
<i>Cooling: Convection or Forced Air</i>	

Mercury-vapor half-wave rectifier for high-voltage rectifier circuits, requiring 60 seconds cathode heating and having a nominal 15 V anode drop.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse anode voltage	20000 V	—
Peak cathode current	40 A	—
Average cathode current	5 A	—
Cathode heating time	60 s	—
Maximum frequency	150 Hz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage drop	15 V	—
Critical anode voltage	100 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT Industrial and Transmitting Tubes

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

1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CriticalAnodeVoltage	100 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumSurgeCathodeCurrent	100 A	Maximum0.1Seconds
Maximum Frequency	150 Hz	—