



ELECTRONIC TUBE REFERENCE

GL857B

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 / 30 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	22000 V
NOMINAL OUTPUT CURRENT	10 A
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	60 s

Half-wave mercury-vapor rectifier tube for high-voltage service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Time	1 min	Typical
PeakVoltageDrop	12 V	Typical

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumInstantaneousAnodeCurrent	40 A	QuadratureOperation
Maximum Surge Anode Current	400 A	DesignOnly

TUBE TINKER

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