

ELECTRONIC TUBE REFERENCE

BD12

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Hot-cathode full-wave mercury-vapor rectifier for very-high-current industrial power conversion. Rated for approximately 1 kV peak inverse voltage and 16.5 A nominal rectified output, with a low conducting voltage drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	16.5 A
PEAK FORWARD CURRENT	50 A
FORWARD VOLTAGE DROP	12 V
SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	16.5 A
PEAK FORWARD CURRENT	50 A
FORWARD VOLTAGE DROP	12 V
Second physical rectifier section; promoted electrical properties populated from identical section.	

Hot-cathode full-wave mercury-vapour rectifier.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Surge anode current per anode	500 A	0.1s max

1971 ENGLISH ELECTRIC VALVE

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Surge anode current per anode	500 A	0.1s max