



ELECTRONIC TUBE REFERENCE

2V531E

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Mercury-vapor half-wave rectifier replacing 4078A, with quadrature filament ratings and approximately 20 kV inverse-voltage capability for high-current industrial power conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	2
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	20 A
FORWARD VOLTAGE DROP	12 V
<i>Extracted semantically from complete approved datasheet.</i>	

Half-wave mercury-vapour rectifier; replacement for 4078A; ratings include quadrature filament excitation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply frequency	50 Hz	ChokeInputFilter
Minimum cathode heating time	1 min	Ambient>20C
Maximum fault anode current	50 A	—
Maximum fault-current duration	0.1 s	—

TUBE TINKER

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