

ELECTRONIC TUBE REFERENCE

1564

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated Philips double-anode mercury-vapor/gas industrial rectifier with auxiliary ignition. Its heavy filament supports very high average and peak current in industrial power-conversion service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.9 V / 70 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	850 V
NOMINAL OUTPUT CURRENT	60 A
PEAK FORWARD CURRENT	135 A
FORWARD VOLTAGE DROP	15 V
WARM-UP TIME	120 s
Representative of two identical anode rectifier paths; published Ia max 30 A per anode.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	850 V
NOMINAL OUTPUT CURRENT	60 A
PEAK FORWARD CURRENT	135 A
FORWARD VOLTAGE DROP	15 V
WARM-UP TIME	120 s
<i>Physical rectifier section 2; electrical properties populated from the same published ratings applicable to the identical rectifier path.</i>	

Philips 1564 is a directly heated double-anode mercury-vapour and gas-filled industrial rectifying valve rated for about 60 A per valve, with auxiliary ignition and substantial peak-current capability.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS anode supply voltage	275 V	—
Minimum RMS anode supply voltage	60 V	—
Maximum average anode current per anode	30 A	—
Permitted mercury/ambient temperature	30–80 degC	—
DC output current	60 A	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	50 V	—

1999 PHILIPS 0-D

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RMS anode supply voltage	275 V	—
Minimum RMS anode supply voltage	60 V	—
Maximum average anode current per anode	30 A	—
Permitted mercury/ambient temperature	30–80 degC	—
DC output current	60 A	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	50 V	—

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