from RTMA release #1029, Oct. 16, 1951

PHILIPS 19 Y 3

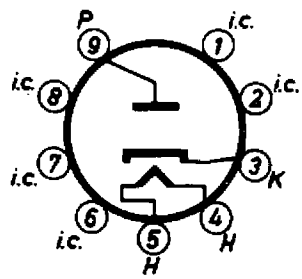
HALF-WAVE HIGH-VACUUM RECTIFIER

Physical Specifications

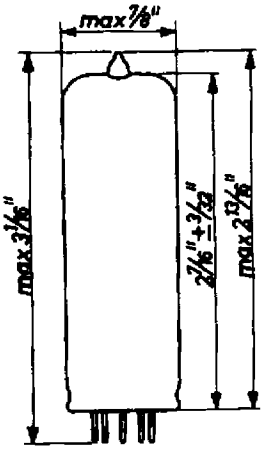
Cathode	Coated unipotential
Base	Small button noval 9-pin
Bulb	T6½
Maximum overall length	3 1/16"
Maximum seated height	2 13/16"
Bulb length excluding tip	2 7/16" ± 3/32"
Maximum diameter	7/8"
Mounting position	any
Basing connections - JETEC basing designation	9BM

Pin 1 - Internally connected
Pin 2 - Internally connected
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Internally connected
Pin 7 - Internally connected
Pin 8 - Internally connected
Pin 9 - Plate

Bottom view of base



Tube outline



General Electrical Data

Heater voltage	19 volts
Heater current	300 ma

Maximum Ratings

Peak inverse plate voltage	700 volts
D.C. output current	180 ma
Filter input capacitor	60 µF [1])
Heater-cathode voltage (peak value, cathode positive with respect to heater)	550 volts
D.C. component of heater-cathode voltage	250 volts

N.V.PHILIPS'GLOEILAMPENFABRIEKEN,Eindhoven,Holland.

Maximum Ratings (continued)

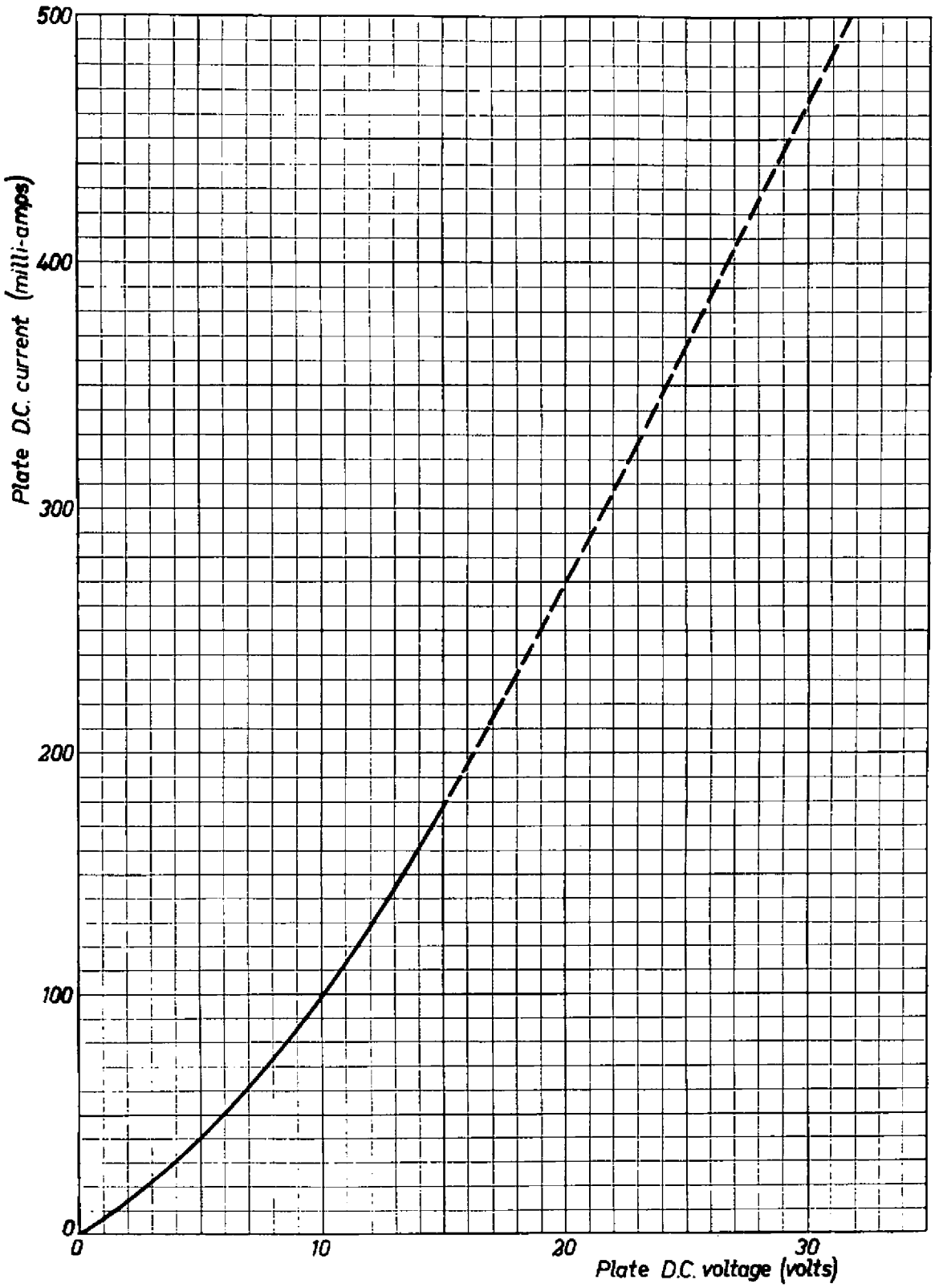
A.C.component of heater-cathode voltage					220	volts (rms)
A.C. input voltage	250	240	220	200	127	volts (rms)
Total effective plate supply impedance	100	80	40	30	0	ohms (min)

Operating Conditions

A.C. input voltage	250	240	220	200	127	volts (rms)
Filter input capacitor	60	60	60	60	60	µF
Total effective plate supply impedance	125	105	65	30	0	ohms
D.C.output current	180	180	180	180	180	ma
D.C.output voltage	195	195	195	195	127	volts

Note 1. When two tubes are connected in parallel, the maximum value of the capacitor may be increased to 100 µF. In this case each plate must have the minimum total effective supply impedance specified above.

N.V.PHILIPS'GLOEILAMPENFABRIEKEN, Eindhoven, Holland.


500
400
300
200
100
0
Plate D.C. current (milli-amps)
0
10
20
30
Plate D.C. voltage (volts)

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