DOUBLE ANODE RECTIFYING TUBE

Double anode high vacuum rectifying tube.

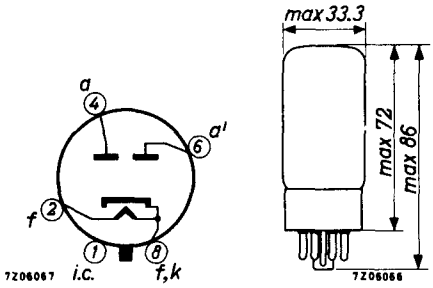
QUICK REFERENCE DATA			
Transformer voltage	V_{tr}	2x450	V_{RMS}
D.C. current	I_o	250	mA

HEATING: Indirect by A.C.; parallel supply

Heater voltage	V_f	5	V
Heater current	I_f	1.9	A

DIMENSIONS AND CONNECTIONS Dimensions in mm

Base: Octal



OPERATING CHARACTERISTICS

As two-phase half-wave rectifier with capacitor input

Transformer voltage	V_{tr}	2x300	2x350	2x400	V_{RMS}
D.C. output voltage	V_o	330	380	430	V
D.C. current	I_o	250	250	250	mA
Protecting resistance	R_t	2x75	2x100	2x125	Ω
Input capacitor of smoothing filter	C_{filt}	60	60	60	μF
Transformer voltage	V_{tr}	2x450	2x500	2x550	V_{RMS}
D.C. output voltage	V_o	480	560	640	V
D.C. current	I_o	250	200	160	mA
Protecting resistance	R_t	2x150	2x175	2x200	Ω
Input capacitor of smoothing filter	C_{filt}	60	60	60	μF

As two-phase half-wave rectifier with choke input

Transformer voltage	V_{tr}	2x300	2x350	2x400	V_{RMS}
D.C. output voltage	V_o	250	290	330	V
D.C. current	I_o	250	250	250	mA
Protecting resistor	R_t	0	0	0	Ω
Choke	L	10	10	10	H
Transformer voltage	V_{tr}	2x450	2x500	2x550	V_{RMS}
D.C. output voltage	V_o	375	420	465	V
D.C. current	I_o	250	250	225	mA
Protecting resistor	R_t	0	0	0	Ω
Choke	L	10	10	10	H

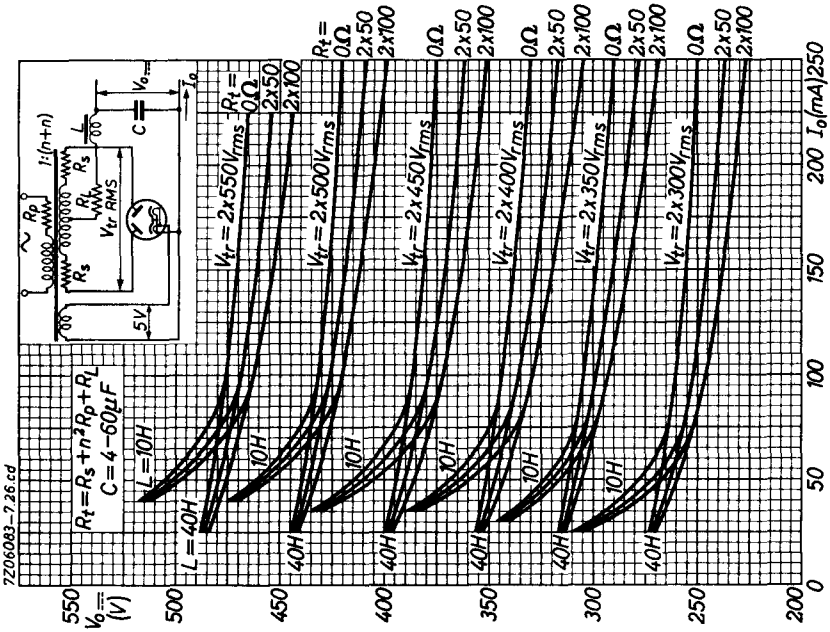
LIMITING VALUES (Design centre rating system)
See also page 4

Capacitor input

Anode voltage, peak inverse	$V_{a\,inv_p}$	max. 1500 V						
D.C. current	I_o	max. See page 4						
Anode peak current	I_{a_p}	max. 750 mA						
Input capacitor of smoothing filter	C_{filt}	max. 60 μF						
Protecting resistance at transformer voltage	$R_{t\,min.}$	2x50	2x75	2x100	2x125	2x150	2x175	Ω
	V_{tr}	2x300	2x350	2x400	2x450	2x500	2x550	V_{RMS}

Choke input

Anode voltage, peak inverse	$V_{a\,inv_p}$	max. 1500 V
D.C. current	I_o	max. See page 4
Anode peak current	I_{a_p}	max. 750 mA



$R_t = R_s + n^2 R_p + R_L$
$C = 4-60\mu F$
$V_{tr} = 2x550V_{rms}$
$V_{tr} = 2x500V_{rms}$
$V_{tr} = 2x450V_{rms}$
$V_{tr} = 2x400V_{rms}$
$V_{tr} = 2x350V_{rms}$
$V_{tr} = 2x300V_{rms}$
$R_t = 0\Omega$
2x50
2x100
L = 10H
L = 40H
10H
40H
V_{tr} RMS
R_p
R_s
R_L
L
C
V_o
I_o
1:(n+n)
5V
V_o (V)
I_o (mA)
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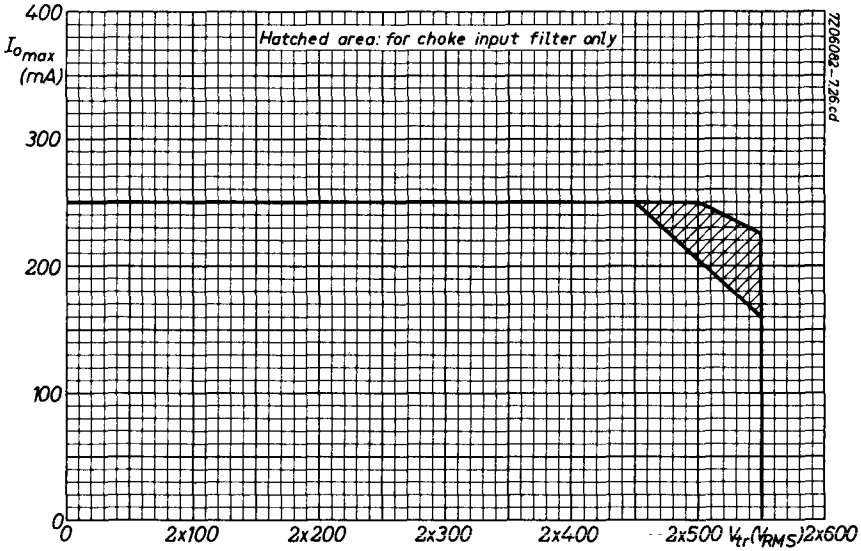

Hatched area: for choke input filter only
$I_{o\,max}$ (mA)
V_{tr} (V_{RMS})
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PHILIPS

Data handbook

Electronic components and materials

GZ34

page	sheet	date
1	1	1970.01
2	2	1970.01
3	3	1972.01
4	4	1972.01
5	FP	1999.03.19