

4 VALVE DATA PREFERRED TYPES

F RECTIFIERS

HVR2 High-voltage half-wave rectifier

HEATER

V_h 4.0 V I_h 0.65 A Heating time 40 secs.

LIMITING VALUES

$V_{a(rms)}$ max.	6,000 V
I_a max.	3.0 mA
P.I.V. max.	20 KV

OPERATING CONDITIONS

Reservoir Capacitor=0.2 μ F
Smoothing Capacitor=0.1 μ F
Smoothing Resistor=0.4 M Ω

$V_{a(rms)}$ V	0.5	1.0	1.5	2.0	2.5	3.0	mA
4,000 V	5.1	4.9	4.5	4.2	3.9	3.6	KV
6,000 V	8.0	7.8	7.5	7.2	7.0	6.7	KV



BASE :
British
4-pin

DIMENSIONS :
L=131 mm
D=46 mm

PY 31 Indirectly-heated half-wave rectifier

HEATER

V_h 17 V I_h 0.3 A Suitable for series operation, D.C. or A.C.

OPERATING CONDITIONS

$V_{a(rms)}$ V	Max. reservoir capacitance (C) (μ F)	Min. limiting resistance (R) (Ω)
250	60	175
320	32	125
360	16	75
400	8	0
170	60	100
320	32	75
360	16	30
127	60	0

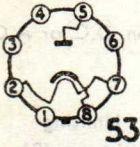
With reservoir capacitance=32 μ F

$V_{a(rms)}$ V	V_{out} (D.C.) at	
50	75	125 mA
110 (R=0)	120	100 V
220 (R=125 Ω)	235	179 V

V_{in} (D.C.)		
110 (R=0)	103	99 V
220 (R=125 Ω)	210	194 V



LIMITING VALUES



V_a max.	250 V
I_a max.	125 mA
V_{h-k} (pk) max.	300 V
P.I.V. max.	1,000 V
C max.	60 μ F

PY 31
(contd.)

BASE :
Octal

DIMENSIONS :
L=112 mm
D=44 mm

Indirectly-heated full-wave rectifier, primarily intended for use in series operated television equipment

PZ 30

HEATER

V_h 52 V I_h 0.3 A Suitable for series operation, D.C. or A.C.

INTERNAL RESISTANCE 100 Ω (per section)

OPERATING CONDITIONS

In half-wave circuit

V_a (rms) V	Reservoir capacitance (μ F)	Limiting resistance (each anode) (Ω)
240	50	50
240	32	30

With limiting resistors = $2 \times 50 \Omega$ and reservoir capacitor = 50 μ F

V_a (V _{rms})	50	100	150	200	240	300	400 mA
240	306	280	272	250	250	225	205 V

OPERATING CONDITIONS

In voltage doubler circuit

V_a (rms)	220	240 V
I_{out}	200	200 mA
V_{out}	425	480 V
Limiting resistance (each anode)	30	30 Ω
Reservoir capacitance	2×32	$2 \times 32 \mu$ F

With limiting resistors = $2 \times 30 \Omega$ and reservoir capacitor = 32 μ F

V_a (rms)	60	80	100	150	200 mA
220	520	505	490	452	425 V
240	571	557	540	502	480 V

LIMITING VALUES



V_a (rms) max.	240 V
I_a max. (each anode)	200 mA
V_{h-k} (pk) max.	650 V
Max. reservoir capacitance	50 μ F

BASE :
Octal

DIMENSIONS :
L=120 mm
D=46 mm

