

High voltage half-wave rectifiers particularly suitable for use in cathode ray tube e.h.t. supply units. The EY87 is electrically identical to the EY86 but has a chemically treated bulb to prevent flash-over under conditions of high humidity.

HEATER

V_h	6.3	V
I_h	90	mA
Heater voltage tolerances $I_{out} \leq 200\mu A$	$\pm 15^*$	%
$I_{out} > 200\mu A$	$\pm 7^*$	%

*These tolerances apply when the power supply voltage is at its nominal value and when a valve having bogey heater characteristics is employed. In addition, fluctuations in the mains supply voltage not exceeding $\pm 10\%$ are permissible.

CAPACITANCE

$C_{a-(h+k+s)}$	1.7	pF
-----------------	-----	----

LIMITING VALUES

Pulsed input

$\dagger P.I.V. \text{ max.}$	22	kV
$I_{out} \text{ max.}$	800	μA
$\dagger\dagger i_{a(pk)} \text{ max.}$	40	mA
$C \text{ max.}$	2000	pF

$\dagger$ Max. duration 18% of a line scanning cycle with a max. of $18\mu s$.

$\dagger\dagger$ Max. duration 10% of a line scanning cycle with a max. of $10\mu s$.

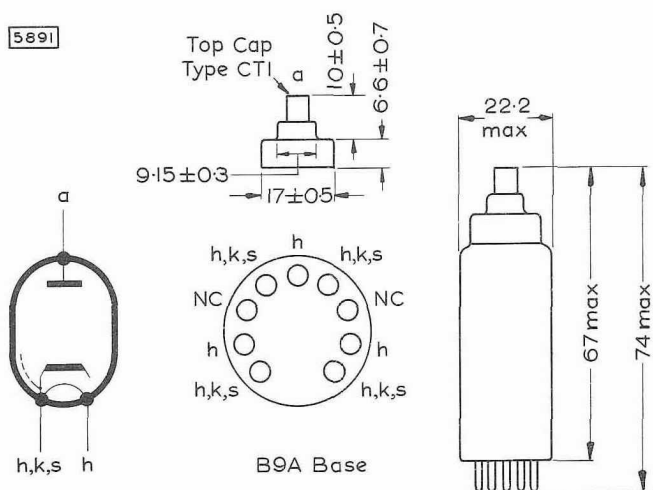
Sinusoidal input (50c/s)

$V_{in(r.m.s.)} \text{ max.}$	5.0	kV
$I_{out} \text{ max.}$	3.0	mA
$C \text{ max.}$	0.2	μF
$R_{lim} \text{ min.}$	100	k Ω

WARNING

X-ray shielding is advisable to give protection against possible danger of personal injury arising from prolonged exposure at close range to this tube when operated above 16kV. The level of X-radiation is likely to be considerably higher when the heater circuit of the tube is open.

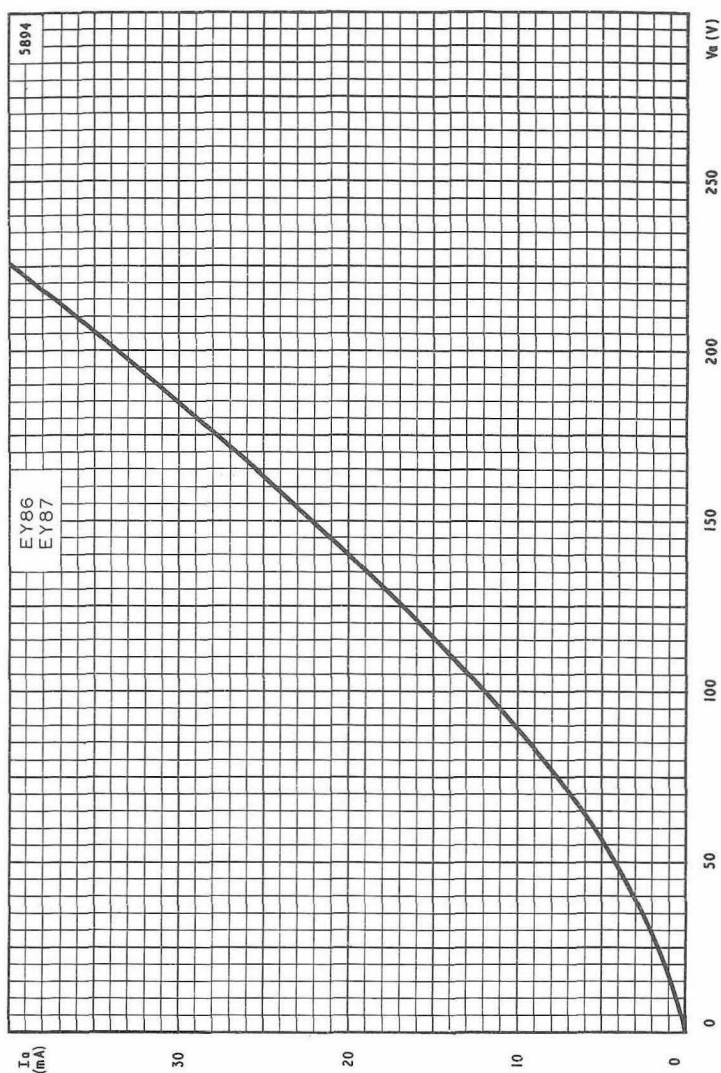
5891



All dimensions in mm

Pins 1, 4, 6 and 9 may be used for fixing an anti-corona shield.

Pins 3 and 7 may only be connected to points in the heater circuit and must not be earthed.



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

