

TETRODE THYRATRON

CST2-12

Tetrode, mercury vapour thyatron with negative control characteristic.

LIMITING VALUES (absolute ratings, not design centre)

It is important that these limits are never exceeded and such variations as mains fluctuations, component tolerances and switching surges must be taken into consideration in arriving at actual valve operating conditions.

Max. peak anode voltage		
Inverse	2.0	kV
Forward	2.0	kV
Max. cathode current		
Peak (25 c/s and above)	75	A
Peak (below 25 c/s)	25	A
Average (Max. averaging time 30 secs.)	12.5	A
Max. average positive control-grid current for anode voltage more positive than -10V (averaging time 30 secs.)	250	mA
Max. peak positive control-grid current during the time that the anode voltage is more positive than -10V	1.0	A
Max. average positive shield-grid current for anode voltage more positive than -10V (averaging time 30 secs.)	500	mA
Max. peak positive shield-grid current during the time that the anode is more positive than -10V	2.0	A
Max. shield-grid resistor	10	k Ω
Heater voltage limits	4.8 to 5.2	V
*Min. cathode heating time	5	mins
Ambient temperature limits	10 to 40	$^{\circ}$ C

*For an ambient temperature below 15 $^{\circ}$ C a delay of 15 minutes is advisable before applying the anode voltage.

CHARACTERISTICS

Electrical

Heater voltage	5.0	V
Heater current at 5.0 V	20	A
Deionisation time (approx.)	1,000	μ s
Anode voltage drop	10 to 20	V
**Critical grid voltage	$V_a=50V$	20 V
	$V_a=100V$	-1.0 V
	$V_a=500V$	-7.5 V
	$V_a=2.0kV$	-28 V

Mechanical

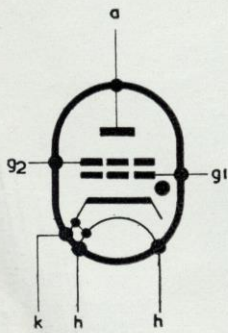
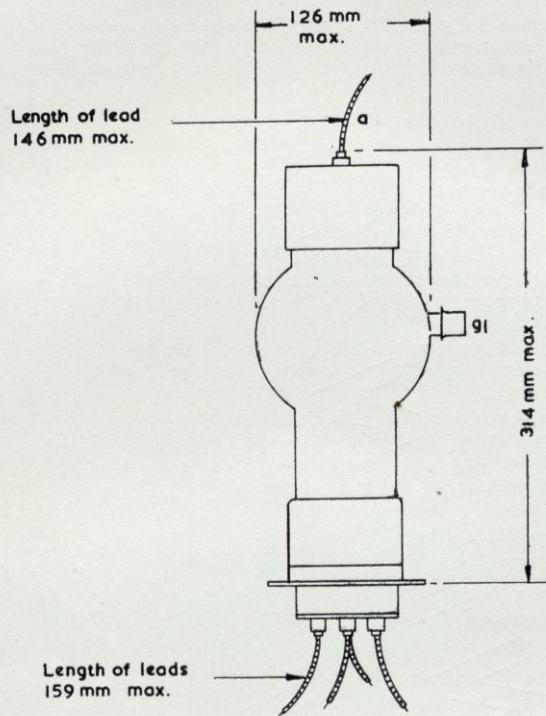
Type of cooling	Convection
Mounting position	Vertical, base down

**Measured at ambient temperature 20 $^{\circ}$ C and with shield grid connected to cathode.

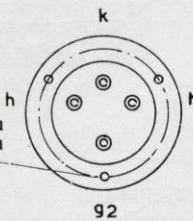
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3 fixing holes 5.1mm dia spaced 120° apart on a 95.25mm P.C.D.



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