COLD CATHODE TRIGGER TUBE

Z800U

Cold cathode inert gas-filled tube with priming discharge. Primarily intended for use in low current stabiliser circuits, also suitable for use in timers and protection equipment.

PRELIMINARY DATA

The predominant characteristic of the Z800U is its very stable trigger breakdown voltage. This stability and freedom from photoelectric effects is brought about by a priming discharge of some 6μA flowing between anode and auxiliary cathode. Apart from the priming discharge the tube behaves as a triode trigger tube.' This tube is designed for use with unidirectional voltages.

CATHODE Cold

CHARACTERISTICS

Nominal maintaining voltage at 2mA	110	V
Trigger voltage for strike (V_a=260V Trigger resistance=68M Ω)	141–151	V
Maximum variation of trigger breakdown voltage for any tube (V_a=260V)	2.0	%
Recommended priming current	6.0	μA

LIMITING VALUES (Absolute ratings)

*Maximum applied anode voltage at which self ignition will not occur in any tube	285	V
Max. operating anode voltage	275	V
Minimum anode to cathode voltage for transfer with recommended trigger capacitance of 200 μμF	220	V
Maximum mean cathode current (averaging time 15 secs)	2.5	mA
Maximum peak cathode current	10	mA
Maximum mean priming current	10	μA
Minimum priming current	2.0	μA

*Trigger voltage ≧+50V.

Note.—The maximum operating speed is largely determined by the circuit and is of the order of 400 c/s.

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