

TUBES AND SEMICONDUCTORS

A Division of Columbia Broadcasting System, Inc.

Danvers, Massachusetts

# CBS TYPE 7205

### COLD - CATHODE TRIGGER TUBE

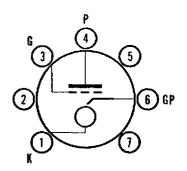
The 7205 is a cold-cathode miniature trigger and timer tube used in applications where high hold-off voltage, short anode delay times, minimum anode delay variation and high pulse currents are required. Because of its special construction the 7205 will withstand a wide ambient temperature range, impact shocks with 100g peaks, and severe vibrational stresses. Because of its dark-start design characteristic, the 7205 will operate in sealed enclosures and after storage periods without requiring incident light or other extraneous energies to initiate the glow discharge.

### MECHANICAL DATA

Cathode cold
Bulb T5 1/2
Base Min. button 7 pin, 2" flying leads
Mounting Position Any
Overall Height (not including leads) 1 3/4 inch
Maximum Diameter 3/4 inch

### LEAD CONNECTIONS

Pin 1.	Cathode
Pin 2.	Omitted
Pin 3.	Grid
Pin 4.	Anode
Pin 5.	Omitted
Pin 6.	Glow Pin
Pin 7.	Omitted



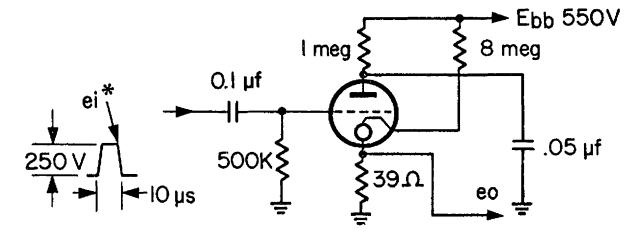
### ELECTRICAL DATA

## Maximum Ratings (Absolute Maximum Values)

Anode Operating Voltage	1000 volts
Hold-off Voltage	2000 volts
Cathode Current Peak	500 amp
Glow Current	100 μΑ
Grid Resistor	2.0 meg
Discharge Capacitor	0.5 μf
Power Input	1.0 W
Grid Bias	± 80 volts
Grid Pulse Current	40 µa
Output Pulse Duration	10 µs
Ambient Temperature Range	-55 to + 85 °C
Anode Delay Time	4.0 µs
Anode Delay Time Variation	0.4 µs
Pulse Repetition Rate	20 ppm

## Typical Operation (For circuit below)

Anode Supply Voltage	550 volts
Grid Voltage	0 volts
Glow Current	50 µa



<sup>\*</sup> May be triggered manually by applying d-c momentarily to grid.

## Minimum Conditions

Anode Operating Voltage, d-c	500 volts
Cathode Current Peak	10 amp
Glow Current	30 μΑ
Grid Resistor	0.25 meg
Grid Pulse Duration	10 μs
Grid Pulse Amplitude	230 volts