



Excellence in Electronics

TYPE CK5785

The CK5785 is a filament type diode rectifier of subminiature construction designed for use at comparatively high voltages and low currents. It is particularly suitable for use in battery operated power supplies for portable Geiger-Mueller counters. The low filament power and small tube size make the tube desirable where battery and space economy are important. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

- ENVELOPE: T-2X3 Glass
- BASE: None (0.016" tinned flexible leads, Length: 1.5" min. Spacing: Leads 1-6 0.240" center-to-center; Leads 6-7 0.048" center-to-center.)
- TERMINAL CONNECTIONS: (Red Dot is adjacent to lead 1)
- Lead 1 Plate
- Lead 6 Filament, negative
- Lead 7 Filament, positive
- MOUNTING POSITION: Any

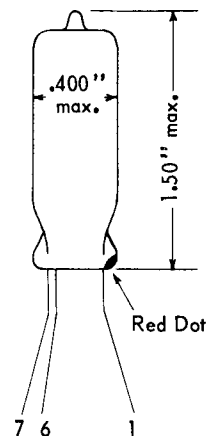
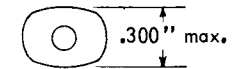
ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)	1.25 ± 20% volts
Peak Inverse Plate Voltage	4000 volts
Average Plate Current	100 μa.
Peak Plate Current (steady state) ♦	520 μa.
Maximum Plate Supply Voltage (Peak)	2300 volts
Minimum Plate Supply Impedance	1 megohm
Peak Plate Current (surge) ♦	2.5 ma.

CHARACTERISTICS AND TYPICAL OPERATION - HALF-WAVE RECTIFIER: ▲

Filament Voltage (dc)	1.25 volts
Filament Current	15 ma.
Plate Supply Voltage (RMS Sinisoidal Wave Form)	1625 volts
Plate Supply Impedance	1.02 megohms
Load Current (dc)	80 μa.
Load Condenser	.01 μf
Load Resistor	20 megohms
DC Output Voltage	1600 volts
Tube Drop (approx.) at 500 μa.	7.5 volts
250 μa.	5.5 volts
80 μa.	3.5 volts



♦ To avoid damage to the equipment or tube, it is recommended that the plate supply impedance be adjusted to limit forward and surge current to the stated value. Minimum resistance is 1 megohm minus the effective equivalent transformer impedance, but never less than 980,000 ohms dc resistance.

▲ 60 cycle operation.

Tentative Data

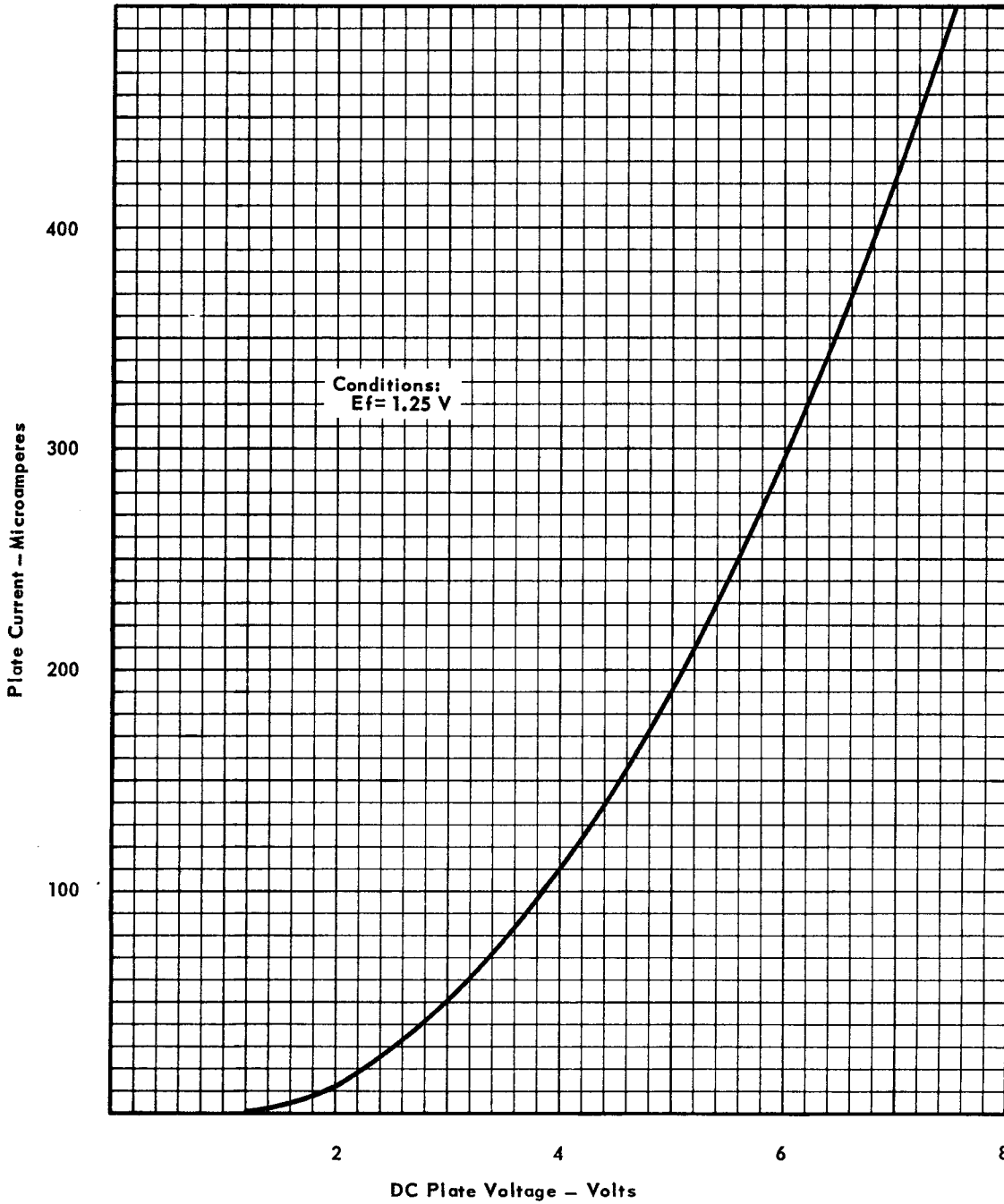
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