

*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 DATAENVELOPE: 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:

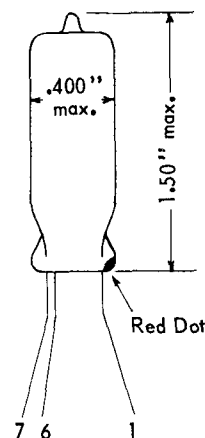
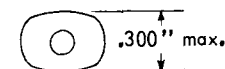
Filament Voltage (dc)	1.25 ± 20% volts
Peak Inverse Plate Voltage	4000 volts
Average Plate Current	100 μ a.
Peak Plate Current (steady state) ♦	520 μ a.
Maximum Plate Supply Voltage (Peak)	2300 volts
Minimum Plate Supply Impedance	1 megohm
Peak Plate Current (surge) ♦	2.5 ma.

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 μ a.
Load Condenser	.01 μ f
Load Resistor	20 megohms
DC Output Voltage	1600 volts
Tube Drop (approx.) at 500 μ a.	7.5 volts
250 μ a.	5.5 volts
80 μ a.	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

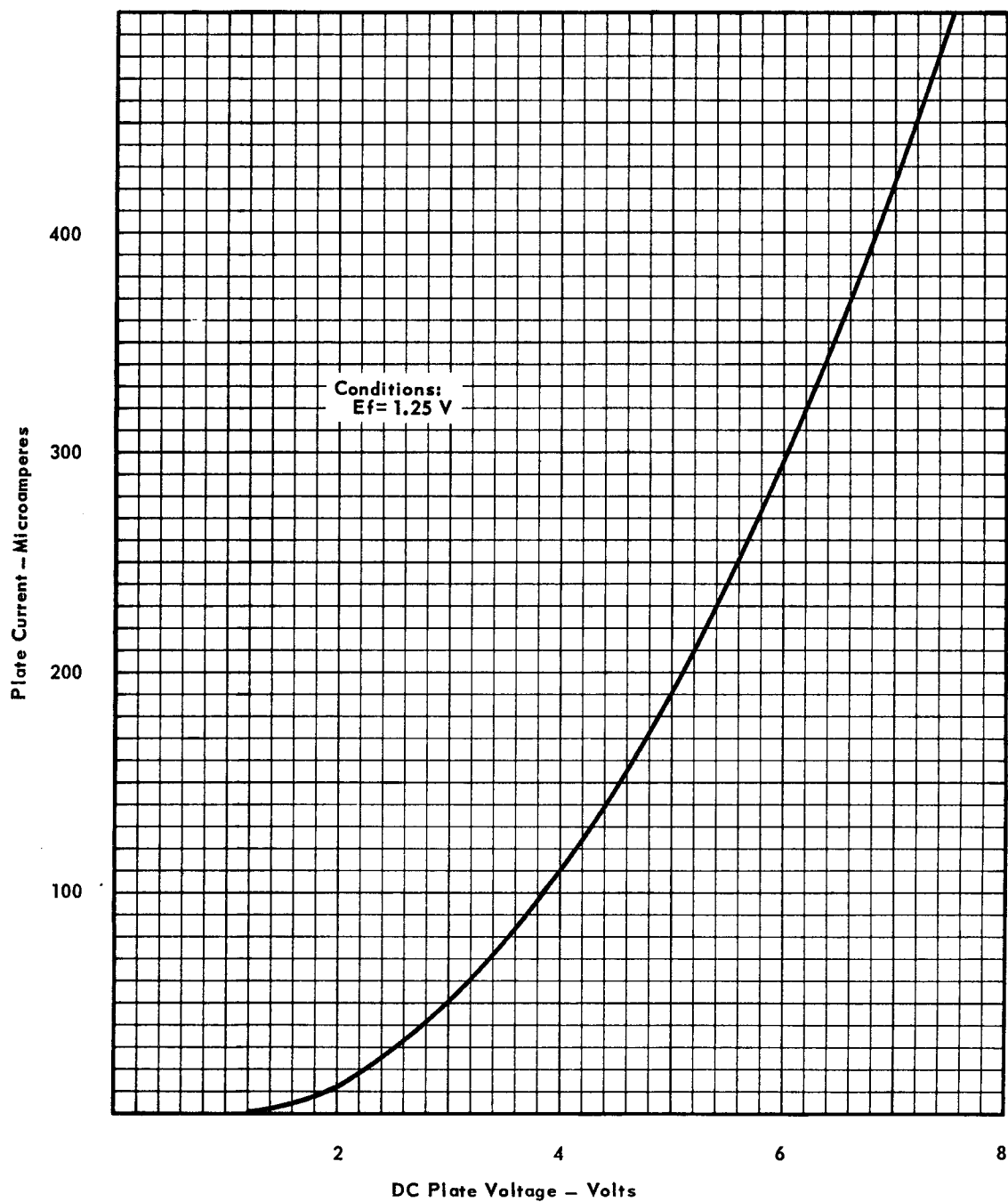
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