

VOLTAGE-REFERENCE TUBE

5651

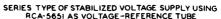
MINIATURE GLOW-DISCHARGE TYPE

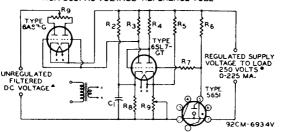
MINIATURE GLOW-DISCHARGE TIFE
<u>DATA</u>
General:
Cathode.
Pin 1 - Anode Pin 2 - Cathode Pin 3 - Internal Connection -Do Not Use Pin 4 - Cathode Pin 5 - Anode Pin 6 - Internal Connection -Do Not Use Pin 7 - Cathode
Maximum Ratings, Absolute Values:
DC OPERATING CURRENT (Continuous) 3.5 max. ma AMBIENT TEMPERATURE RANGE55 to +90 °C
Characteristics and Operation Range Values:
Min. Av. Max.
DC Starting Voltage. - 107 115". volts DC Operating Voltage. 82 87 92 volts DC Operating Current. 1.5 - 3.5 ma Regulation (1.5 ma. to 3.5 ma.) - - 3 volts Stability - - 0.1 volt
Circuit Values:
Shunt Capacitor 0.02 µf Series Resistor See NOTE Below
A supply voltage of not less than this value should be provided to insure "starting" throughout tube life. Defined as the maximum voltage fluctuation at any current level within
the operating current range. WOTE: A series resistor must always be used with the 5651. The resistance value must be chosen so that (1) the maximum current rating of 3.5 mm, is not exceeded at the highest anode-supply voltage employed, and (2) the minimum current rating of 1.5 mm, is always exceeded when the anode-supply voltage is at its lowest value.

2021

RCA 565

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- $\begin{array}{lll} {\rm C}_1 &= 0.1 \; \mu f, \; 400 \; \; {\rm volts} \\ {\rm R}_1 &= {\rm Plate} \; {\rm current} \; {\rm balancing} \\ {\rm ing} \; {\rm potentiometer}, \\ {\rm 160} \; {\rm ohms}, \; {\rm 10} \; {\rm watts} \\ {\rm R}_2 &= 12000 \; {\rm ohms}, \; {\rm 0.5} \; {\rm watt} \\ {\rm R}_3^2 &= 470000 \; {\rm ohms}, \; {\rm 0.5} \; {\rm watt} \\ {\rm R}_4^2 &= 470000 \; {\rm ohms}, \; {\rm 0.5} \; {\rm watt} \\ \end{array}$
- R₅ = 12000 ohms, 2 watts R₆ = 68000 ohms, 1 watt R₇ = 1 megohm, 0.5 watt R₈ = 15000 ohms, 2 watts R₉ = Output voltage control potentiometer,
- R₄ = 470000 ohms, 0.5 watt 10000 ohms

 A 375 volts approx. at zero load current; 325 volts approx. at 225 milliamperes load current.
- The voltage regulation of this supply operated at a fixed line voltage of 117 volts and an output voltage of 250 volts is less than 0.2 volt over the current range of 0 to 225 milliamperes. At full current, the regulation for a variation of ± 10 per cent in line voltage is less than 0.1 volt. Socket connections for the 5651 are made so that removal of the 5651 from its socket opens the load.