

19A3 is a half-wave rectifier tube for use in transformer-less radio receivers. As the heater voltage is 19 V, this tube is most suitable for use in FM/AM radio receivers, etc.

**BASE** E7-1 Miniature Button 7-Pin

**MOUNTING POSITION**—Any

## HEATER

Voltage { Pins 3 and 4.. 19\* 17.3\*\* (V)  
 { Pins 4 and 6.. 3.0 2.2 (V)  
 Current ..... 0.15 0.15 (A)

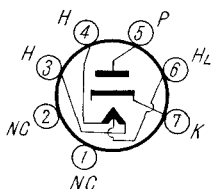
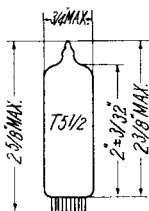
\* Without Panel Lamp

\*\* With Panel Lamp (3.2 V 0.16 A)

| MAXIMUM RATINGS<br>(Design Center Values) |          | TYPICAL OPERATION<br>(With Capacitor Input to Filter) |       |       |          |
|-------------------------------------------|----------|-------------------------------------------------------|-------|-------|----------|
| Peak Inverse Plate Voltage                | 350 (V)  | A.C. Plate Supply Voltage (RMS)                       |       |       |          |
| Peak Plate Current                        | 450 (mA) | 100**                                                 | 117** | 127** | 127* (V) |
| D.C. Output Current                       |          | D.C. Output Current                                   |       |       |          |
| With Panel Lamp and                       |          | 70                                                    | 60    | 70    | 70 (mA)  |
| { No Shunting Resistor                    | 60 (mA)  | Panel Lamp Shunting Resistor                          |       |       |          |
| { Shunting Resistor                       | 70 (mA)  | 200                                                   | —     | 200   | — (Ω)    |
| Without Panel Lamp                        | 70 (mA)  | Effective Plate—Supply Impedance                      |       |       |          |
| Peak Heater—Cathode Voltage               |          | 25                                                    | 25    | 40    | 0 (Ω)    |
| Heater negative with                      |          | Filter Input Capacitor                                |       |       |          |
| respect to cathode                        | 350 (V)  | 100                                                   | 50    | 100   | 100 (μF) |
| Heater positive with                      |          | D.C. Output Voltage at Input to Filter                |       |       |          |
| respect to cathode                        | 350 (V)  | (Approx)                                              |       |       |          |
|                                           |          | At Half-Load Current of 35 (mA)                       |       |       |          |
|                                           |          | —                                                     | —     | —     | 150 (V)  |
|                                           |          | At Full-Load Current of 70 (mA)                       |       |       |          |
|                                           |          | —                                                     | —     | —     | 140 (V)  |

\* Without Panel Lamp

\*\* With Panel Lamp (3.2 V, 0.16 A)



TYPICAL CIRCUIT FOR OPERATION WITH PANEL LAMP

