MAZDA
6.F.14

TELEVISION SCREENED PENTODE
TENTATIVE

RATING

Heater Voltage (volts) \(V_h\) 6.3
Heater Current (amps) \(I_h\) 0.35
Maximum Anode Voltage (volts) \(V_{a(max)}\) 250
Maximum Screen Voltage (volts) \(V_{g2(max)}\) 250
Mutual Conductance (m\(\text{A}/\text{V}\)) \(g_m\) * 10.6
Anode Impedance (megohms) \(R_a\) * 0.125
Inner Mu \(\mu_{g1,g2}\) * 33
Maximum Anode Dissipation (watts) \(W_{a(max)}\) 4.0
Maximum Screen Dissipation (watts) \(W_{g2(max)}\) 1.0
Maximum Potential Heater/Cathode (volts P.C.) \(V_{h-k(max)}\) 150

* Taken at \(V_a = V_{g2} = 140\text{v}; V_{g1} = -1.25\text{v}.\)

INTER-ELECTRODE CAPACITANCES

\[
\begin{array}{ll}
\text{Anode/Earth (}\mu\text{F}) & C_{out} 3.8 5.3 \\
\text{Anode/Control Grid (}\mu\text{F}) & C_{a-g1} .02 .021 \\
\text{Control Grid/Earth (}\mu\text{F}) & C_{1n} 9.3 10.8 \\
\end{array}
\]

§ Inter-electrode Capacitances with holder capacitance balanced out.

{ Total capacitance including a Benjamin BBA moulded holder at a frequency of 1 Mc/s.}

DIMENSIONS

Maximum Overall Length (mm) 67
Maximum Diameter (mm) 22
Maximum Seated Height (mm) 54
Radius over Location Key (mm) 12.25
Approximate Nett Weight (ozs) 4
Approximate Packed Weight (ozs) 1

MOUNTING POSITION - Unrestricted.

October 1948
RADIO DIVISION
THE EDISON SWAN ELECTRIC COMPANY LTD
TELEVISION SCREENED PENTODE

TENTATIVE

BULB Clear

BASE B8A

Viewed from free end of pins.

CONNEXIONS

Pin 1  Heater  h
Pin 2  Anode  a
Pin 3 Internal Shield  s
Pin 4  Suppressor Grid  s3
Pin 5  Screen Grid  s2
Pin 6  Control Grid  s1
Pin 7  Cathode  k
Pin 8  Heater  h

This valve is not fitted with an internal cylindrical shield around the electrode structure.