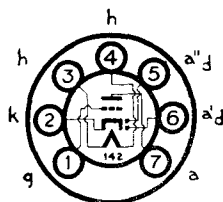


TYPE 12AE6 MINIATURE DOUBLE DIODE TRIODE



The BRIMAR 12AE6 is a double diode triode for use in detector, A.V.C. and A.F. amplifier circuits of car radio receivers and is intended to operate directly from the 12-volt battery without the use of a vibrator H.T. system. It is designed to operate over the range of voltage variations normally encountered with car batteries.

RATINGS

Heater Voltage	...	...	...	...	...	...	12.6 volts
Heater Current	...	...	...	...	...	...	0.15 amp.
Anode Voltage	...	...	...	...	...	...	30 volts max.
Grid Circuit Resistance	...	...	...	...	...	...	10 M Ω max.
Cathode Current	...	...	...	...	...	...	20 mA max.
Diode Current (Average)	...	...	...	...	...	...	1 mA max.
Heater-Cathode Voltage	...	...	...	...	...	...	± 30 volts max.

OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	...	12.6 volts
Grid Voltage	...	...	...	...	...	...	0 volts
Anode Current	...	...	...	...	...	...	750 μ A
Mutual Conductance	...	...	...	...	...	...	1 mA/V
Anode Impedance	...	...	...	...	...	...	15 kilohms
Amplification factor	...	...	...	...	...	...	15

OPERATION AS AN R.C. COUPLED AMPLIFIER

Anode Supply Voltage	...	...	...	...	...	...	14.4 volts
Grid Voltage	...	...	...	...	...	...	0 volts
Anode Load Resistor	...	...	...	...	...	...	470 K Ω
Grid Resistor	...	...	...	...	...	...	2.2 M Ω
Input Grid Coupling Capacitor	...	...	...	...	...	...	.01 μ F
Grid Resistor of following Stage	...	...	...	...	...	...	2.2 M Ω
Signal Source Impedance	...	...	...	...	...	...	1,000 Ω max.
Voltage Gain	...	...	...	...	...	...	10

INTER-ELECTRODE CAPACITANCES *

Input	...	...	...	...	...	...	1.8 pF
Output	...	...	...	...	...	...	1.1 pF
Anode to Grid	...	...	...	...	...	...	2.0 pF
Diode Anode to Diode Anode	...	...	...	...	...	...	0.9 pF

* Measured without external screen.