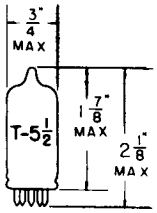
TUNG-SOL

H-F DIODE

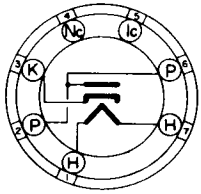


COATED UNIPOTENTIAL CATHODE

HEATER

1.4 VOLTS 0.15 AMPERE
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 1A3 IS A HEATER CATHODE TYPE OF MINIATURE DIODE PARTICULARLY USEFUL AS A DISCRIMINATOR TUBE IN PORTABLE FM RECEIVERS, AND IN PORTABLE HIGH FREQUENCY MEASURING EQUIPMENT. ITS INTERELECTRODE CAPACITANCES ARE VERY LOW, BEING IN THE ORDER OF 0.5 μμf. THE RESONANT FREQUENCY OF THE 1A3 IS APPROXIMATELY 1000 Mc. THE GLASS BUTTON BASE PROVIDES FOR SHORT LEADS AND SHORT LEAD INDUCTANCE.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

MAXIMUM PEAK INVERSE PLATE VOLTAGE	330	VOLTS
MAXIMUM PEAK PLATE CURRENT	5.0	MA.
MAXIMUM DC OUTPUT CURRENT	0.5	MA.
MAXIMUM DC HEATER–CATHODE POTENTIAL	140	VOLTS

DIRECT INTERELECTRODE CAPACITANCES

HEATER TO CATHODE	0.6	μμf
PLATE TO CATHODE	0.4	μμf
PLATE TO HEATER	0.8	μμf

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AC PLATE SUPPLY VOLTAGE (RMS)	117	VOLTS
FILTER INPUT CONDENSER	2.0	μf
MINIMUM TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE	0	OHMS

A THE CENTER HOLE IN SOCKETS DESIGNED FOR THIS BASE PROVIDES FOR THE POSSIBILITY THAT THIS TUBE TYPE MAY BE MANUFACTURED WITH THE EXHAUST-TUBE TIP AT THE BASE END. FOR THIS REASON, IT IS RECOMMENDED THAT IN EQUIPMENT EMPLOYING THIS TUBE TYPE, NO MATERIAL BE PERMITTED TO OBSTRUCT THE SOCKET HOLE.

PLATE 1490
OCT. 31 1944