

TUNG-SOL

DIODE

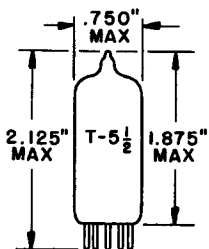
MINIATURE TYPE

FOR

USE IN PORTABLE FM RECEIVERS
AND PORTABLE HF MEASURING
EQUIPMENT

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



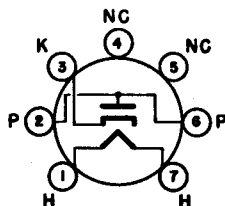
GLASS BULB

MINIATURE BUTTON

7 PIN BASE E7-1

OUTLINE DRAWING

JEDEC 5-2



BOTTOM VIEW

BASING DIAGRAM

JEDEC 5AP

THE 1A3 IS AN INDIRECTLY HEATED DIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS PARTICULARLY USEFUL AS A DISCRIMINATOR TUBE IN PORTABLE FM RECEIVERS, AND IN PORTABLE HF MEASURING EQUIPMENT. THE RESONANT FREQUENCY OF THE 1A3 IS APPROXIMATELY 1000 MC/S.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

PLATE TO CATHODE (P TO K)	0.4	pf
PLATE TO HEATER (P TO H)	0.8	pf
HEATER TO CATHODE (H TO K)	0.6	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	1.4	VOL TS	150	MA.
LIMITS OF APPLIED VOLTAGE			1.4±0.2	VOL TS
MAXIMUM HEATER-CATHODE VOLTAGE, DC:			140	VOL TS

RATINGS - RECTIFIER SERVICE

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

MAXIMUM PEAK INVERSE PLATE VOLTAGE,	330	VOL TS
MAXIMUM PEAK PLATE CURRENT	5	MA.
MAXIMUM DC OUTPUT CURRENT	0.5	MA.

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CONTINUED FROM PRECEDING PAGE —

TYPICAL OPERATION WITH CONDENSER-INPUT FILTER

AC PLATE SUPPLY VOLTAGE (RMS)	117	VOLTS
FILTER INPUT CONDENSER	2	μ f
MIN. TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE	0	OHMS

