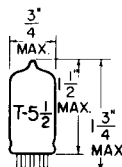


## TUNG-SOL

DOUBLE DIODE  
MINIATURE TYPE

GLASS BULB

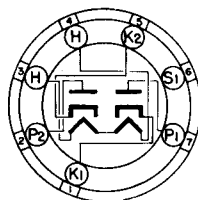
COATED UNIPOTENTIAL CATHODE

HEATER

6.3±10% VOLTS 0.3 AMP.

AC OR DC

ANY MOUNTING POSITION

BOTTOM VIEW  
MINIATURE BUTTON  
7 PIN BASE  
6BT

THE 6AL5 COMBINES TWO INDEPENDENT DIODE UNITS IN THE 7 PIN MINIATURE CONSTRUCTION. ITS HIGH PERVEANCE PERMITS HIGH EFFICIENCY IN EITHER FM OR AM DETECTOR SERVICE.

## DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT SHIELD	WITH SHIELD <sup>A</sup>	
PLATE INPUT: P TO (H+K+IS) EACH UNIT	2.5	3.2	μf
COUPLING: 1P TO 2P (MAX.)	0.068	0.026	μf
CATHODE INPUT: K TO (P+H+IS) EACH UNIT	3.4	3.6	μf

<sup>A</sup>EXTERNAL SHIELD #316 CONNECTED TO PIN #6.

## → RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE	6.3±10%	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	330 <sup>A</sup>	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 <sup>B</sup>	VOLTS
MAXIMUM PEAK INVERSE VOLTAGE	330	VOLTS
MAXIMUM AC PLATE VOLTAGE (EACH PLATE) RMS	117	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT (EACH PLATE)	54	MA.
MAXIMUM DC OUTPUT CURRENT (EACH PLATE)	9	MA.
MINIMUM TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE (EACH PLATE)	300	OHMS
HEATER WARM-UP TIME (APPROX.)*	11.0	SECONDS

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## HALF-WAVE RECTIFIER

HEATER VOLTAGE	6.3±10%	VOLTS
HEATER CURRENT	0.3	AMP.
AVERAGE DIODE CURRENT (EACH UNIT) AT 10 VOLTS DC	60	MA.

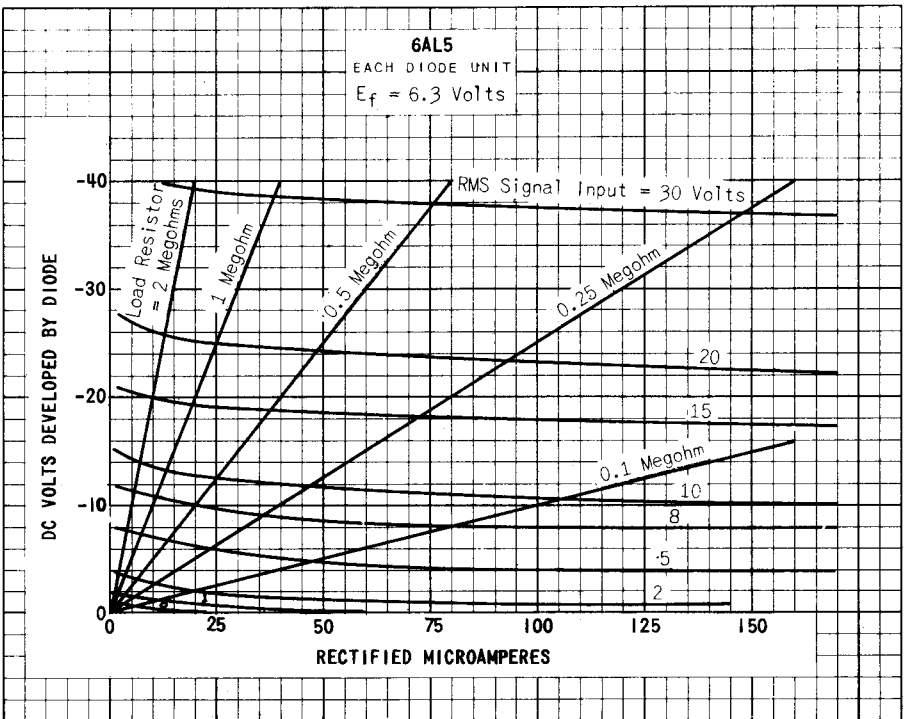
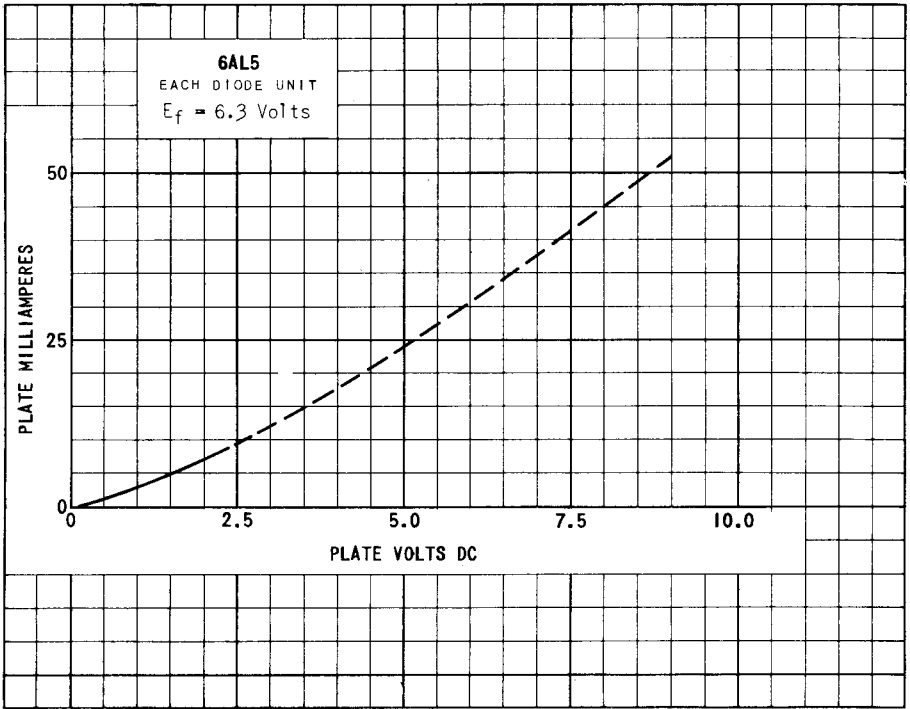
THE RESONANT FREQUENCY OF EACH UNIT OF THE 6AL5 IS 700 MC. (APPROX.)

<sup>A</sup>DC COMPONENT MUST NOT EXCEED 330 VOLTS

<sup>B</sup>DC COMPONENT MUST NOT EXCEED 100 VOLTS.

→ INDICATES A CHANGE.

# 6AL5



## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## AVERAGE CHARACTERISTICS - SECTION 2

PLATE VOLTAGE	150	VOLTS
GRID 2 VOLTAGE	100	VOLTS
GRID 3 VOLTAGE	0	VOLTS
CATHODE-BIAS RESISTOR	560	OHMS
PLATE CURRENT	1.3	MA.
GRID 2 CURRENT	2.1	MA.
GRID 1 TRANSCONDUCTANCE	1,000	MICROMHOS
GRID 3 TRANSCONDUCTANCE	400	MICROMHOS
PLATE RESISTANCE	Approx. 0.15	MEGOHMS
GRID 1 VOLTAGE FOR $I_b = 30 \mu A$	Approx. -4.5	VOLTS
GRID 3 VOLTAGE FOR $I_b = 50 \mu A$	Approx. -4.5	VOLTS

