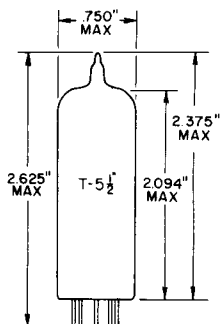


## TUNG-SOL

MINIATURE TYPE

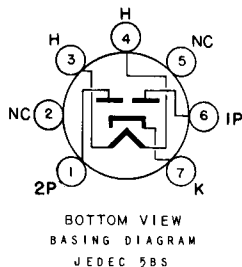


GLASS BULB  
MINIATURE BUTTON  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-3

COATED UNIPOTENTIAL CATHODE

FULL WAVE RECTIFIER

ANY MOUNTING POSITION



THE 6X4 IS A HEATER-CATHODE TYPE POWER RECTIFIER IN THE MINIATURE CONSTRUCTION. ITS LOW VOLTAGE DROP AND SMALL SIZE ADAPT IT TO USE WITH VIBRATOR-TYPE INVERTERS IN AUTOMOBILE RECEIVERS.

## HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	600	MA.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 70 MA EACH PLATE)		22	VOLTS
<b>HEATER SUPPLY LIMITS:</b> VOLTAGE OPERATION <sup>A</sup>		6.3±0.6	VOLTS
<b>MAXIMUM HEATER CATHODE VOLTAGE:</b> HEATER NEGATIVE WITH RESPECT TO CATHODE			
DC		450	VOLTS
TOTAL DC AND PEAK		450	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

## → MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PEAK INVERSE PLATE VOLTAGE		1250	VOLTS
AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS)	SEE CHART I		
DC OUTPUT CURRENT EACH PLATE	SEE CHART I		
STEADY STATE PEAK PLATE CURRENT EACH PLATE (SEE CHART II)		245	MA.
TRANSIENT PEAK PLATE CURRENT EACH PLATE (SEE CHART III)		1.1	AMP.
VIBRATOR OPERATION (MINIMUM DUTY CYCLE OF 75%)			
DC OUTPUT VOLTAGE (AT FILTER INPUT)		350	VOLTS
DC OUTPUT CURRENT EACH PLATE		45	MA.

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**→ TYPICAL OPERATING CHARACTERISTICS**  
FULL-WAVE RECTIFIER

	SINE WAVE OPERATION INPUT TO FILTER		VIBRATOR OPERATION INPUT TO FILTER	
	CAPACITOR	CHOKE	CAPACITOR	
AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS) <sup>B</sup>	325	400	---	VOLTS
INPUT CAPACITOR	10	---	10	μf
INPUT CHOKE	---	10	---	HENRYS
EFFECTIVE PLATE SUPPLY IMPEDANCE EACH PLATE	525	---	---	OHMS
DC OUTPUT CURRENT	70	70	70	MA.
DC OUTPUT VOLTAGE AT FILTER INPUT (APPROX.)	310	340	240	VOLTS

A  
WHEN USED IN AUTOMOTIVE SERVICE FROM A 6 VOLT BATTERY SOURCE, THE PERMISSIBLE RANGE IN HEATER VOLTAGE IS FROM 5.0 TO 8.0 VOLTS.

B  
AC PLATE SUPPLY VOLTAGE IS MEASURED WITHOUT LOAD.

→ INDICATES A CHANGE.

*SIMILAR TYPE REFERENCE: Except for heater ratings, the 6X4 is identical to the 12X4.*

