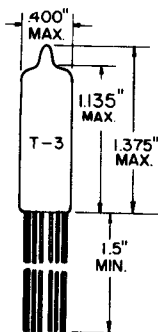


## TUNG-SOL

## PENTODE

SUBMINIATURE TYPE

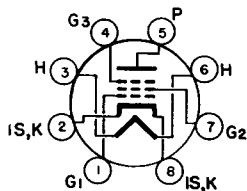


T-3  
GLASS BULB  
SUBMINIATURE BUTTON  
FLEXIBLE LEADS  
BASE E8-10  
OUTLINE DRAWING  
JEDEC 3-1

COATED UNIPOTENTIAL CATHODE

FOR MOBILE AND AIRCRAFT  
EQUIPMENT APPLICATIONS

ANY MOUNTING POSITION



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 8DC

THE 6206 IS A SEMI-REMOTE CUTOFF RF PENTODE IN THE 8 PIN SUBMINIATURE CONSTRUCTION. IT IS DESIGNED FOR OPERATION IN THE UHF REGION UNDER CONDITIONS OF SEVERE SHOCK, VIBRATION, HIGH TEMPERATURE AND HIGH ALTITUDE.

## DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT SHIELD	WITH SHIELD <sup>B</sup>	
GRID #1 TO PLATE, MAX.	0.03	0.015	pf
INPUT	4.0	4.2	pf
OUTPUT	1.9	3.4	pf

## HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE VALUES

AVERAGE CHARACTERISTICS	6.3 VOLTS	150	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE		±200	VOLTS

## RATINGS

MECHANICAL

MAXIMUM IMPACT ACCELERATION <sup>C</sup>	450	G
MAXIMUM UNIFORM ACCELERATION <sup>D</sup>	1 000	G
MAXIMUM VIBRATIONAL ACCELERATION FOR EXTENDED PERIODS <sup>E</sup>	2.5	G
MAXIMUM BULB TEMPERATURE	250	°C

CONTINUED ON FOLLOWING PAGE

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**MAXIMUM RATINGS**

ABSOLUTE VALUES

PLATE VOLTAGE, DC	165	VOLTS
GRID #2 VOLTAGE, DC	155	VOLTS
PLATE DISSIPATION	1.1	WATTS
GRID #2 DISSIPATION	0.55	WATTS
CATHODE CURRENT	16.5	MA.
NEGATIVE GRID #1 VOLTAGE	55	VOLTS

**TYPICAL OPERATING CHARACTERISTICS**

## CONDITIONS:

HEATER VOLTAGE	6.3	VOLTS
PLATE VOLTAGE, DC	100	VOLTS
GRID #3 VOLTAGE <sup>F</sup>	0	VOLTS
GRID #2 VOLTAGE, DC	100	VOLTS
CATHODE BIAS RESISTOR	120	OHMS
PLATE CURRENT	7.2	MA.
GRID #2 CURRENT	2.2	MA.
TRANSCONDUCTANCE	4 500	μMHOS
PLATE RESISTANCE	260 000	OHMS
GRID VOLTAGE FOR 25 μMHOS TRANSCONDUCTANCE	-14	VOLTS
NOISE OUTPUT VOLTAGE <sup>G</sup> MAXIMUM	60	MV.
LIFE EXPECTANCY:		
30° C AMBIENT TEMPERATURE	5 000	HOURS
175° C AMBIENT TEMPERATURE	1 000	HOURS

<sup>B</sup> WITH EXTERNAL SHIELD OF 0.405 INCH DIAMETER CONNECTED TO CATHODE.

<sup>C</sup> FORCES IN ANY DIRECTION AS APPLIED BY THE NAVY TYPE HIGH IMPACT (FLYWEIGHT) SHOCK MACHINE FOR ELECTRIC DEVICES OR EQUIVALENT.

<sup>D</sup> FORCES IN ANY DIRECTION APPLIED GRADUALLY, AS IN CENTRIFUGE.

<sup>E</sup> VIBRATIONAL FORCES IN ANY DIRECTION AT 60 CYCLES PER SECOND FOR A PERIOD EXCEEDING 100 HOURS.

<sup>F</sup> GRID #3 CONNECTED TO CATHODE AT SOCKET.

<sup>G</sup> ACROSS PLATE RESISTOR OF 10,000 OHMS, WITH APPLIED VIBRATIONAL ACCELERATION OF 15G AT 40 CYCLES PER SECOND.