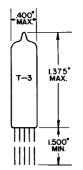
TUNG-SOL -

PENTODE



GLASS BULB
SUBMINIATURE BUTTON
8 PIN BASE E8-10
OUTLINE DRAWING
JEDEC 3-1

SUBMINIATURE

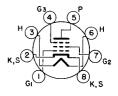
FOR

CLASS C OSCILLATOR

AND FREQUENCY MULTIPLIER

APPLICATIONS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION



BOTTOM VIEW BASING DIAGRAM JEDEC 8DC

THE 8517 IS A PENTODE IN THE 8 PIN SUBMINIATURE CONSTRUCTION. IT IS INTENDED FOR CLASS C OSCILLATOR AND FREQUENCY MULTIPLIER APPLICATIONS WHERE LONG LIFE AND RESISTANCE TO SHOCK AND VIBRATION ARE ESSENTIAL.

DIRECT INTERELECTRODE CAPACITANCES

WITH SHIELD #318 TIED TO CATHODE

GRID 1 TO PLATE	MAX.	0.02	pf
GRID 1 TO ALL OTHER ELECTRODES		4.3	pf
PLATE TO ALL OTHER ELECTRODES		3,5	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	150	MA.
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE TOTAL DC AND PEAK-FITHER POLARITY		200	VOLTS

CONTINUED ON FOLLOWING PAGE

ALTITUDE

- TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS ABSOLUTE MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

PLATE VOLTAGE	165	VOLTS
GRID 2 VOLTAGE	155	VOLTS
GRID 1 VOLTAGE	0 -	VOLTS
GRID 3 VOLTAGE	30	VOLTS
PLATE DISSIPATION	.80	WATTS
GRID 2 DISSIPATION	•55	WATTS
CATHODE CURRENT	16	MA.
GRID 1 CIRCUIT RESISTANCE		
ORID I CIRCUIT RESISTANCE	1.1	MEGOHMS
ENVELOPE TEMPERATURE	220	°c

AVERAGE CHARACTERISTICS

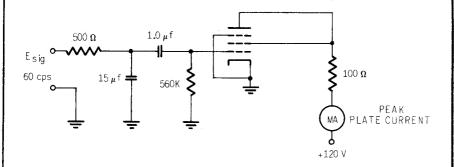
60,000

FEET

PLATE VOLTAGE	100	VOLTS
GRID 2 VOLTAGE	100	VOLTS
GRID 1 VOLTAGE	0	VOLTS
GRID 3 VOLTAGE	0	VOL.TS
CATHODE RESISTOR	150	OHMS
PLATE CURRENT	6.1	MA.
GRID 2 CURRENT	4.2	MA.
GRID 1 VOLTAGE FOR I _b = 100 μA	-6.0	VOLTS
PEAK PLATE CURRENT-TRIODE CONNECTED-SEE DIAGRAM	48	MA.

CIRCUIT DIAGRAM

THIS CIRCUIT SIMULATES A CLASSIC OSCILLATOR WITH HIGH-ORDER HARMONIC OUTPUT.



ADJUST E_{sig} FOR $E_{g1} = 21$ VOLTS RMS