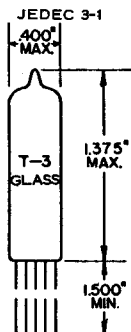


TUNG-SOL

TRIODE

SUBMINIATURE

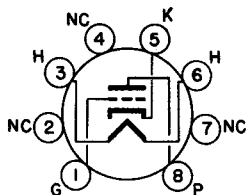
OUTLINE DRAWING



SUBMINIATURE BASE 8 PIN BUTTON
JEDEC E8-10

MEDIUM - MU TRIODE
FOR
OPERATION IN
CONTROL CIRCUITS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 8DK

BOTTOM VIEW

THE 5977 IS A MEDIUM-MU TRIODE IN THE T-3 SUBMINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR OPERATION IN CONTROL CIRCUITS WHERE LONG LIFE AND STABLE PERFORMANCE ARE ESSENTIAL. THE RUGGEDIZED CONSTRUCTION MAKE IT SUITABLE FOR SERVICE WHERE SEVERE CONDITIONS OF MECHANICAL SHOCK AND VIBRATION ARE ENCOUNTERED.

DIRECT INTERELECTRODE CAPACITANCES

	UNSHIELDED	WITH 0.405" D. EXTERNAL SHIELD CONNECTED TO CATHODE	
GRID TO PLATE	1.3	1.3	pf
INPUT	2.0	2.0	pf
OUTPUT	0.8	2.2	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	150	MA
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.3	VOLTS
HEATER CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	180	VOLTS
GRID VOLTAGE	-55	VOLTS
PLATE DISSIPATION	3.3	WATTS
PLATE CURRENT	22	MA
PEAK GRID CURRENT	4.4	MA
BULB TEMPERATURE	220	° C

CHARACTERISTICS

PLATE VOLTAGE - DC	100	VOLTS
CATHODE RESISTOR	270	OHMS
PLATE CURRENT	10.0	MA
AMPLIFICATION FACTOR	16	
TRANSCONDUCTANCE	4,500	μMHOS
GRID VOLTAGE FOR $I_b = 10 \mu A$	-13.5	VOLTS

SPECIAL TESTS

LOW FREQUENCY VIBRATION TEST
 LOW FREQUENCY VIBRATION FATIGUE
 SHOCK TEST