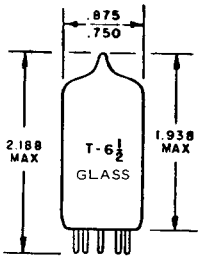


TUNG-SOL

**DIODE PENTODE
MINIATURE TYPE**

**OUTLINE DRAWING
JEDEC 6-2**

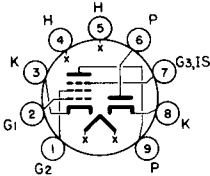


**BASE 9 PIN BUTTON
JEDEC E9-1**

FOR
GENERAL PURPOSE
APPLICATIONS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

**BASING DIAGRAM
JEDEC 9DS**



BOTTOM VIEW

THE 5AS8 IS A GENERAL-PURPOSE, MULTIUNIT TUBE USING THE 9 PIN MINIATURE CONSTRUCTION. IT CONTAINS A HIGH PERVEANCE DIODE AND A SHARP-CUTOFF PENTODE IN ONE ENVELOPE. IT IS INTENDED FOR DIVERSIFIED APPLICATIONS IN TELEVISION AND RADIO RECEIVERS.

**DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH NO EXTERNAL SHIELD**

DIODE UNIT		
PLATE TO HEATER & CATHODE & INTERNAL SHIELD	3.0	pf
PENTODE UNIT		
GRID #1 TO PLATE (MAX.)	0.03	pf
INPUT	7.0	pf
OUTPUT	2.4	pf
PENTODE GRID TO DIODE PLATE (MAX.)	0.005	pf
PENTODE PLATE TO DIODE CATHODE (MAX.)	0.15	pf
PENTODE PLATE TO DIODE PLATE (MAX.)	0.10	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	4.7 VOLTS	600	MA
HEATER WARM-UP TIME	APPROX. 11		SECONDS
LIMITS OF SUPPLIED CURRENT		600 ± 40	MA
HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

	DIODE UNIT	PENTODE UNIT
MAXIMUM PLATE VOLTAGE		300 VOLTS
MAXIMUM GRID #3 VOLTAGE		0 VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE		300 VOLTS
MAXIMUM GRID #2 VOLTAGE		SEE RATING CHART
MAXIMUM GRID #1 VOLTAGE:		
POSITIVE BIAS VALUE		0 VOLTS
MAXIMUM PLATE DISSIPATION		2.5 WATTS
MAXIMUM GRID #2 INPUT		0.5 WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE:		
CATHODE BIAS OPERATION		1.0 MEGOHM
FIXED BIAS OPERATION		0.25 MEGOHM
MAXIMUM PEAK INVERSE PLATE VOLTAGE	330	VOLTS
MAXIMUM PEAK PLATE CURRENT	50	MA
MAXIMUM DC PLATE CURRENT	5	MA

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE SUPPLY VOLTAGE	200	VOLTS
GRID #3	CONNECTED TO CATHODE AT SOCKET	
GRID #2 SUPPLY VOLTAGE	150	VOLTS
CATHODE BIAS RESISTOR	180	OHMS
PLATE CURRENT	9.5	MA
GRID #2 CURRENT	3	MA
TRANSCONDUCTANCE	6,200	μ MHOS
PLATE RESISTANCE (APPROX.)	300,000	OHMS
GRID #1 BIAS (APPROX.) FOR $I_b = 10 \mu A$	-8	VOLTS

