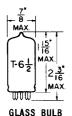
-- TUNG-SOL -

DIODE-PENTODE

MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.200 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE

WITHOUT

THE 12DE8 IS A COMBINED REMOTE CUT-OFF PENTODE AND DIODE WITH INDEPENDENT UNIPOTENTIAL CATHODES IN THE 9-PIN MINIATURE CONSTRUCTION. THE PENTODE SECTION IS INTENDED FOR USE AS AN RF OR IF AMPLIFIER WHERE THE HEATER, PLATE AND SCREEN GRID POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTO-MOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

		SHIELD	
PENTODE GRID #1 TO PLATE: (MA)	<.)	.006	$\mu\mu$ f
PENTODE INPUT:		5.5	$\mu\mu f$
PENTODE OUTPUT:		5.7	μμ f
DIODE INPUT:		3.7	$\mu\mu$ f
DIODE OUTPUT:		5.7	μμ f
COUPLING (DIODE PLATE TO PENTOD	DE GRID (MAX.)	.018	μμ f
COUPLING (DIODE PLATE TO PENTOD		.012	μμ f
COUPLING (DIODE CATHODE TO PENT	TODE GRID (MAX.)	.13	$\mu\mu$ f.
COUPLING (DIODE CATHODE TO PENT	TODE PLATE (MAX.)	.0016	$\mu\mu$ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE ^A	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	±30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM GRID #2 VOLTAGE	30	VOLTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	10	ME GOHMS
MAXIMUM AVERAGE DIODE CURRENT	5	МΔ.

ATHIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A NOMINAL 12 VOLT DATTERY SOURCE.
THE HEATER IS THEREFORE DESIGNED TO OPERATE OVER THE 10.0 TO 15.9 VOLTAGE RANGE ENCOUNTERED IN
THIS SERVICE. THE MAXIMUM RATINGS OF THE TUBE PROVIDE FOR AN ADEQUATE SAFETY FACTOR SUCH THAT
THE TUBE WILL WITHSTAND THE WIDE VARIATION IN SUPPLY VOLTAGES.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.200	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRID #3 VOLTAGE ^B	0	VOLTS
GRID #2 VOLTAGE	12.6	VOLTS
GRID #4 VOLTAGE	80 ^c	VOLTS
PLATE CURRENT	1 300	MAMPS
GRID #2 CURRENT	500	μ AMPS
PLATE RESISTANCE (APPROX.)	-3	ME GOHM
TRANSCONDUCTANCE ^D	1 500	μ MHOS
GRID #4 VOLTAGE (APPROX.)		
FOR $G_mD = 10 \mu MHOS$	-6.0	VOLTS
DIODE CURRENT WITH 5 VOLTS APPLIED	20	MA.

 $^{\mathrm{C}}_{\mathrm{AVERAGE}}$ bias developed across a 2.2 megohm grid resistor.

DFROM GRID #1 TO PLATE.

B CONNECTED TO CATHODE AT SOCKET.

