TUNG-SOL -

PENTODE

MINIATURE TYPE



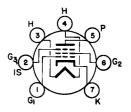
7 PIN BASE E7-1 OUTLINE DRAWING JEDEC 5-2

GLASS BULB

COATED UNIPOTENTIAL CATHODE
HEATER

12.6 VOLTS 0.15 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW BASING DIAGRAM DEDEC 78K

WITH

THE 12BL6 IS A REMOTE CUT-OFF PENTODE WITH A UNIPOTENTIAL CATHODE IN THE 7-PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE AS AN RF OR IF AMPLIFIER WHERE THE HEATER, PLATE AND SCREEN GRID POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

	SH I ELD ⊕	
GRID TO PLATE: (MAX.)	0.006 pf	
INPUT:	5.5 pf	
OUTPUT:	4.8 pf	

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

MAXIMUM HEATER-CATHODE VOLTAGE	±30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM GRID #2 VOLTAGE	30	VOLTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM GRID #4 CIRCUIT RESISTANCE	10	MEGOHMS

THIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A MOMINAL 12 VOLT BATTERY 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.

⊕wiTH SHIELD #316.

- INDICATES A CHANGE.

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

PLATE VOLTAGE GRID #3 VOLTAGE* GRID #2 VOLTAGE	12.6 0 12.6 -0.65	VOLTS VOLTS VOLTS
GRID #1 VOLTAGE ^A PLATE CURRENT GRID #2 CURRENT	1 350 500	VOLTS μAMPS μAMPS
PLATE RESISTANCE (APPRO TRANSCONDUCTANCE B GRID #1 VOLTAGE (APPRO)	(.)	MEGOHM μMHOS
FOR $G_m^B = 40 \mu$ MHOS GRID #1 & #3 VOLTAGE (# FOR $G_m^B = 40 \mu$ MHOS	_6.0 APPROX.)5.0	VOLTS VOLTS

AAVERAGE CONTACT POTENTIAL DEVELOPED ACROSS A 2.2 MEGOHM GRID RESISTOR.

BFROM GRID #1 TO PLATE.

^{*}CONNECTED TO CATHODE AT SOCKET.