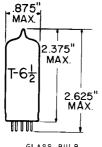
TUNG-SOL -

DIODE-REMOTE-CUTOFF PENTODE

MINIATURE TYPE



UNIPOTENTIAL CATHODE FOR AM AND AM/FM BROADCAST RECEIVERS ANY MOUNTING POSITION

BOTTOM VIEW BASING DIAGRAM JEDEC 9LQ

GLASS BULB SMALL BUTTON 9 PIN NOVAL E9-1

OUTLINE DRAWING JEDEC 6-3

THE 12EO7 IS A DIODE AND A REMOTE-CUTOFF PENTODE WITH A COMMON CATHODE OF THE 9 PIN MINIATURE TYPE ESPECIALLY DESIGNED FOR USE AS COMBINED IF-AMPLIFIER AND AM-DETECTOR TUBES IN AM AND AM/FM BROADCAST RECEIVERS. THE PENTODE UNIT MAY ALSO BE USED AS AN RF-OR IF-AMPLIFIER TUBE; THE DIODE UNIT MAY BE USED FOR AUTOMATIC VOLUME CONTROL OR DETECTION.

DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE (MAX.)	.002	рf
GRID #1 TO K, H, G2, G3, & I.S.	5.5	рf
PLATE TO K, H, G2, G3, & 1.S.	5.0	рf
GRID #1 TO DIODE PLATE (MAX.)	0.0015	рf
PENTODE PLATE TO DIODE PLATE	.095	рf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	12.6 VOLTS	150	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION		12.6±1.3	VOLTS
MAXIMUM PEAK HEATER CATHODE VOLTA	GE:		
HEATER NEGATIVE WITH RESPECT TO	CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO	CATHODE	200 ^A	VOLTS

ATHE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES + SEE ETA STANDARD RS-239

CLASS A1 AMPLIFIER-PENTODE UNIT

PLATE VOLTAGE GRID #3 VOLTAGE:	300	VOLTS
POSITIVE VALUE NEGATIVE VALUE	300 300	VOLTS VOLTS
GRID #2 SUPPLY VOLTAGE	300	VOLTS
GRID #2 VOLTAGE SEE RATING GRID #1 VOLTAGE:	CHART	
POSITIVE BIAS VALUE	0	VOLTS
NEGATIVE BIAS VALUE	50	VOLTS
PLATE DISSIPATION	3	WATTS
GRID #3 INPUT	0.2	WATT
GRID #2 INPUT:		
FOR GRID #2 VOLTAGES UP TO 150 VOLTS	0.6	WATT
FOR GRID #2 VOLTAGES BETWEEN		
150 & 300 VOLTS SEE RATING	CHART	
BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	150	°c
DIODE UNIT		

PLATE CURRENT

1.0 MA.

TYPICAL OPERATING CHARACTERISTICS

CLASS A₁ AMPLIFIER

PENTODE UNIT

PLATE VOLTAGE					100	VOLTS
GRID #3	CONNECT	т о	CATHODE	AT	SOCKET	
INTERNAL SHIELD	CONNECT	ΤO	CATHODE	AT	SOCKET	
GRID #2 VOLTAGE					100	VOLTS
GRID #1 SUPPLY VOLTAGE					0	VOLT
GRID #1 RESISTOR (BYPASSED)					2.2	MEGOHMS
TRANSCONDUCTANCE					3800	μ MHOS
PLATE RESISTANCE (APPROX.)					0.25	MEGOHM
PLATE CURRENT					9	MA.
GRID #2 CURRENT					3.5	MA.
GRID #1 VOLTAGE (APPRÓX.) FOR						
TRANSCONDUCTANCE OF 40 μ MHOS					-20	VOLTS

DIODE UNIT - AVERAGE CHARACTERISTICS

₽LATE	VOLTAGE	10	VOLTS
PLATE	CURRENT	2	MA.

