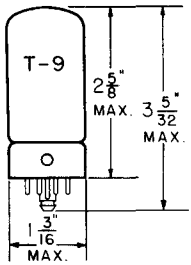
TUNG-SOL

DIODE



GLASS BULB

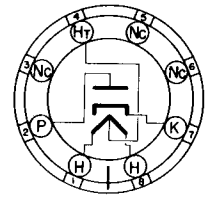
COATED UNIPOTENTIAL CATHODE

HEATER

35 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
8 PIN LOCK-IN

THE 35Y4 IS A SINGLE DIODE IN THE LOCK-IN CONSTRUCTION INTENDED FOR HALF-WAVE POWER RECTIFIER SERVICE. IT FEATURES A TAPPED HEATER SECTION PROVIDING A BALLAST ACTION AND SOURCE OF VOLTAGE FOR A PANEL LAMP.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	35	VOLTS
MAXIMUM DC HEATER-CATHODE VOLTAGE	300	VOLTS
MAXIMUM PEAK INVERSE VOLTAGE	700	VOLTS
MAXIMUM AC PLATE VOLTAGE (RMS)	235	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT	600	MA.
MAXIMUM DC OUTPUT CURRENT:		
WITHOUT PANEL LAMP	100	MA.
WITH PANEL LAMP AND SHUNTING RESISTOR	90	MA.
WITH PANEL LAMP AND NO SHUNTING RESISTOR	60	MA.
MAXIMUM VALUE OF PANEL LAMP SHUNTING RESISTOR:		
FOR 70 MA. DC OUTPUT CURRENT	800	OHMS
FOR 80 MA. DC OUTPUT CURRENT	400	OHMS
FOR 90 MA. DC OUTPUT CURRENT	250	OHMS
TAPPED SECTION VOLTAGE (BETWEEN PINS #1 & #4) WITH 150 MA. FLOWING BETWEEN PINS #1 & #8	7.5	VOLTS
MAXIMUM VOLTAGE ACROSS TAPPED SECTION WHEN PANEL LAMP FAILS (RMS)	15	VOLTS
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 200 MA.)	20	VOLTS

CONTINUED ON FOLLOWING PAGE

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

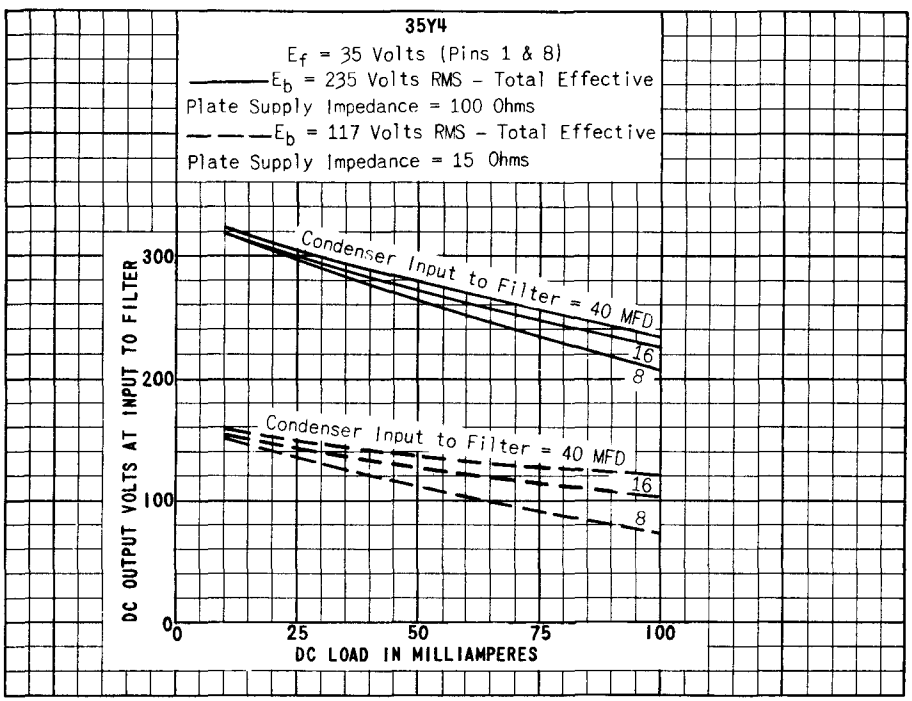
WITH 40 MFD. INPUT CONDENSER AND #40 OR #47 PANEL LAMP

HEATER VOLTAGE (PINS #1 & #8)	32	32	32	32	32	VOLTS
HEATER CURRENT (PINS #4 & #8)	150	150	150	150	150	MA.
VOLTAGE ACROSS TAPPED SECTION OF HEATER (PINS #1 & #4)	5.5	5.5	5.5	5.5	5.5	VOLTS
AC PLATE VOLTAGE (RMS)	117	117	117	117	235	VOLTS
DC OUTPUT CURRENT	60	70	80	90	60	MA.
MINIMUM EFFECTIVE PLATE SUPPLY IMPEDANCE	15	15	15	15	100	OHMS
PANEL LAMP SHUNT RESISTOR	---	300	150	100	---	OHMS

WITH 40 MFD. INPUT CONDENSER AND NO PANEL LAMP

HEATER VOLTAGE (PINS #1 & #8)	35	35	VOLTS
HEATER CURRENT (PINS #4 & #8)	150	150	MA.
VOLTAGE ACROSS TAPPED SECTION OF HEATER (PINS #1 & #4)	7.5	7.5	VOLTS
AC PLATE VOLTAGE (RMS)	117	235	VOLTS
DC OUTPUT CURRENT	100	100	MA.
MINIMUM EFFECTIVE PLATE SUPPLY IMPEDANCE	15	100	OHMS

SIMILAR TYPE REFERENCE: *Ratings and characteristics somewhat similar to types 35W4 and 35Z5GT.*



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