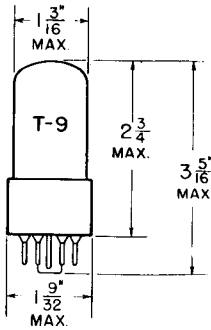


**TUNG-SOL**

**DOUBLE DIODE**

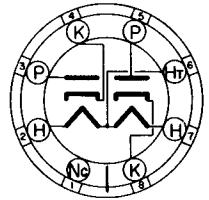


**GLASS BULB**

COATED UNIPOTENTIAL CATHODE

HEATER  
50 VOLTS 150 MA.  
AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
INTERMEDIATE SHELL  
8 PIN OCTAL

THE 50Y7GT IS A TWIN DIODE POWER RECTIFIER TUBE USING THE LOCK-IN CONSTRUCTION. EACH DIODE UNIT IS INDEPENDENT WHICH PERMITS OPERATION AS EITHER HALF-WAVE, FULL-WAVE, OR VOLTAGE DOUBLER. THE HEATER IS COMMON TO THE TWO UNITS AND PROVIDES A TAP CONNECTION FOR PILOT LIGHT OPERATION.

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	50	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	350	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	700	VOLTS
MAXIMUM AC PLATE VOLTAGE EACH PLATE (RMS)		
VOLTAGE DOUBLER	117	VOLTS
HALF-WAVE RECTIFIER	235	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT EACH PLATE	450	MA.
TAPPED SECTION VOLTAGE (PINS #6 & #7)	7.5	VOLTS
MAXIMUM DC OUTPUT CURRENT EACH PLATE	75	MA.
MAXIMUM DC OUTPUT CURRENT EACH PLATE WITH PANEL LAMP	65	MA.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 150 MA. EACH PLATE)	22	VOLTS

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

**VOLTAGE DOUBLER**

HEATER VOLTAGE	46	VOLTS
HEATER CURRENT	150	MA.
AC PLATE SUPPLY VOLTAGE (RMS)	117	VOLTS
DC PLATE CURRENT TOTAL	65	MA.
MINIMUM TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE EACH PLATE	15	OHMS
PANEL LAMP SHUNTING RESISTOR	250	OHMS

**HALF-WAVE RECTIFIER**

**SINGLE SECTION      CONDENSER INPUT FILTER**  
WITH #40 OR #47 PANEL LAMP

HEATER VOLTAGE (PINS #2 & #7)	46	46	46	VOLTS
HEATER CURRENT	150	150	150	MA.
AC PLATE SUPPLY VOLTAGE (RMS)	117	150	235	VOLTS
MINIMUM TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE EACH PLATE	15	40	100	OHMS
DC OUTPUT CURRENT PER PLATE	65	65	65	MA.

**SIMILAR TYPE REFERENCE:** Without pilot lamp electrically equivalent to type 50Y6.

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