

TUNG-SOL

TRIPLE-DIODE TRIODE

MINIATURE TYPE

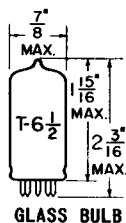
COATED UNIPOTENTIAL CATHODE

HEATER

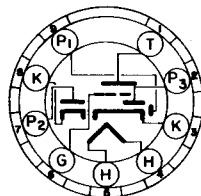
18.9 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW

MINIATURE BUTTON
9 PIN BASE

9AH

THE 19V8 COMPRISES TWO HIGH PERVEANCE DIODES, A MEDIUM PERVEANCE DIODE, AND A HIGH-MU TRIODE IN ONE ENVELOPE WITH THE 9 PIN MINIATURE BASE. ONE OF THE HIGH PERVEANCE DIODES HAS AN INDEPENDENT CATHODE PROVIDING SATISFACTORY OPERATION IN BALANCED LOW IMPEDANCE DETECTOR CIRCUITS. THIS TUBE STRUCTURE PERMITS THE CONSTRUCTION OF AM/FM RECEIVERS WITH A MINIMUM OF SWITCHING.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

DIODE #1 TO GRID: (1P TO G) MAX.	0.1	μmf
DIODE #2 TO GRID: (2P TO G) MAX.	0.2	μmf
DIODE #3 TO GRID: (3P TO G) MAX.	0.02	μmf
DIODE #1 TO ALL: 1P TO (H+K+G+P+2P+3P)	1.3	μmf
DIODE #2 TO ALL: 2P TO (H+K+G+P+1P+3P)	5.3	μmf
DIODE #3 TO ALL: 3P TO (H+K+G+P+1P+2P)	5.3	μmf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE	18.9	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	200	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM POSITIVE DC GRID VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	1	WATT
MAXIMUM DIODE #2, DIODE #3, CURRENT FOR CONTINUOUS OPERATION	10	MA.
MAXIMUM DIODE #1 CURRENT FOR CONTINUOUS OPERATION	1	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	18.9	18.9	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	100	250	VOLTS
GRID VOLTAGE	-1	-3	VOLTS
PLATE RESISTANCE (APPROX.)	54 000	58 000	OHMS
TRANSCONDUCTANCE	1 300	1 200	μMHOS
AMPLIFICATION FACTOR	70	70	
PLATE CURRENT	0.8	1	MA.
AVERAGE DIODE #2 OR DIODE #3 WITH 5 VOLTS DC APPLIED		40	MA.
RATIO OF $\frac{I_{D3}}{I_{D2}}$ OR $\frac{I_{D2}}{I_{D3}}$ WITH 5 VOLTS APPLIED (MAX.)		1.5	
DIODE #2 OR DIODE #3 CURRENT THROUGH 40,000 OHMS WITH NO VOLTAGE APPLIED (MAX.)		24	$\mu\text{A.}$
AVERAGE DIODE #1 CURRENT WITH 10 VOLTS DC APPLIED		2	MA.
HEATER TO ALL CATHODES WITH ± 100 VOLTS APPLIED (MAX.)		5	$\mu\text{A.}$