MECHANICAL DATA

Bulb .................................. T-6 1/2
Base .................................. E9-1, Miniature Button 9-Pin
Outline ................................ 6-2
Basing ................................ 9FH
Cathode ................................. Coated Unipotential
Mounting Position ..................... Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage1 ................................ 12.6 Volts
Heater Current ................................ 150 Ma
Heater-Cathode Voltage (Design Center Values)
Heater Negative with Respect to Cathode 30 Volts Max.
Heater Positive with Respect to Cathode 30 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate ................................ 0.06 µf
Input ..................................... 4.5 µf
Output .................................. 3.0 µf
Diode to Diode ............................. 0.3 µf

RATINGS (Design Center Values)

Plate Voltage ............................. 30 Volts Max.
Grid No. 2 Voltage ........................ 30 Volts Max.
Positive DC Grid No. 1 Voltage ........... 0 Volts Max.
Grid No. 1 Circuit Resistance .............. 10 Megohms Max.
Average Diode Current .................... 1.0 Ma Max.

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage ............................. 12.6 Volts
Grid No. 2 Voltage ........................ 12.6 Volts
Grid No. 1 Voltage ........................ 0 Volts
Plate Resistance (approx.) .............. 0.33 Megohm
Transconductance ....................... 1000 µhmhos
Plate Current ................................ 1.0 Ma
Grid No. 2 Current ....................... 0.38 Ma
Grid No. 1 Voltage (approx.) for gm = 10 µhmhos 5 Volts
Average Diode Current with 10 Volts DC Applied 2 Ma

NOTE:

1. This tube is intended to be used in automotive service from a nominal 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 factor such that the tube will withstand the wide variation in supply voltages.
AVERAGE PLATE CHARACTERISTICS

CURRENT IN MA

PLATE VOLTAGE

$E_f = \text{RATED VALUE}$

$E_{C2} = 12.6 \text{ VOLTS}$

$E_{C1} = 0 \text{ VOLTS}$

$V_{b}$
AVERAGE TRANSFER CHARACTERISTICS

\[ \text{E}_f = \text{RATED VALUE} \]
\[ \text{E}_b = 12.6 \text{ VOLTS} \]
\[ \text{E}_{C2} = 12.6 \text{ VOLTS} \]