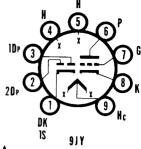


12DV7 SYLVANIA TYPE



MECHANICAL DATA

Outline 6-2 Basing 9JY Cathode Coated Unipotential	Bulb E9-1, Miniature	T-6½ Button 9-Pin
Cathode Coated Uninotential	Outline	6-2
	Cathode. Coated Mounting Position. Coated	

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ¹	12.6 Volts
Heater Current	150 Ma
Heater-Cathode Voltage (Design Maximum Values) ²	
Heater Negative with Respect to Cathode	16 Volts
Heater Positive with Respect to Cathode	16 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

and to hate	
Input: $g \text{ to } (h + Tk) \dots \dots \dots \dots \dots$. 1.3 μμf
Output: \bar{p} to $(h + Tk)$. 0.38 μμf
Diode Plate No. 1 to Grid	0.005 μμf Max.
Diode Plate No. 2 to Grid	
Diode Plate No. 1 to Diode Plate No. 2	0.17 μμf Max.

MAXIMUM RATINGS (Design Maximum Values)2

Cathode Current	
	1
Grid Circuit Resistance 10 Me	
Average Diode Current, Each Diode 1.0 Ma	

CHARACTERISTICS AND TYPICAL OPERATION

Grid to Plata

Class A ₁ Amplifier	
Plate Voltage	12.6 Volts
Grid Voltage ³	
Grid Resistor	2.2 Megohms
Transconductance	400 μa 750 μmhos
Amplification Factor	14
Plate Resistance	19,000 Ohms
EC for 1b = $10 \mu a$ (approx.)	-2 Volts
Average Diode Current with 10 Volts Applied	
(Each Diode)4	1.3 Ma

NOTES:

This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range 10.0 volts to 15.9 volts, and that the maximum ratings provide a safety factor for the wide voltage variation encountered with this type of supply.
 Design-Maximum Ratings are limiting values of operating and environmental conditions applicable to a bogey electron device of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions.
 The device manufacturer chooses these values to provide exceedable acceptable acceptabl

The device manufacturer chooses these values to provide acceptable serviceability of the device, taking responsibility for the effects of changes in operating

conditions due to variations in device characteristics.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey device under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.

Average contact potential bias developed across specified grid resistor.

Test condition only.

APPLICATION

The Sylvania Type 12DV7 is a miniature double diode, medium mu triode intended

for use as a second detector audio amplifier. It is designed for operation where the heater and plate voltages are supplied directly from a 12 volt automotive storage battery.