

ELECTRONIC TUBE REFERENCE

5987

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Premium subminiature low-mu high-perveance power triode for compact output and driver applications requiring comparatively high current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DM	BASE PINS	8
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8DM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – P	A	P – Plate (Anode)	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – P	A	P – Plate (Anode)	CONNECTED
PIN5 – K	A	K – Cathode	CONNECTED
PIN6 – H	–	H – Heater	CONNECTED
PIN8 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.00185 S
AMPLIFICATION FACTOR	4.1
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	4 W
<i>Low-mu triode; Class A characteristics and capacitances published.</i>	

Premium subminiature low-mu, high-perveance power triode.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltaget 6.0 6.3 6.6V	6.6 V	Heater Voltaget 6.0 6.3 6.6V
Heater Current 450 mA	450 mA	Heater Current 450 mA
Peak Plate Forward Voltage 330 v 017" +.002"	330 V	Peak Plate Forward Voltage 330 v 017" +.002"
Plate Dissipation . 4.0W 15"	4 W	Plate Dissipation . 4.0W 15"
Transconductance . C e 1850 umhos	1850 umhos	Transconductance . C e 1850 umhos
the heater voltage to its center-rated value of 6.3 volts SYLVANIA ELECTRIC	6.3 V	the heater voltage to its center-rated value of 6.3 volts SYLVANIA ELECTRIC
Heater Voltage 63V Grid Voltage	63 V	Heater Voltage 63V Grid Voltage
4.10.8 Heater Current:. ot 420 450 480 mA	480 mA	4.10.8 Heater Current:. ot 420 450 480 mA
4.10.9 Transconductance (1):Sm. i 1480 1850 2220 umhos	2220 umhos	4.10.9 Transconductance (1):Sm. i 1480 1850 2220 umhos
4.10.11.1 Amplification Factor:.....	11.1 A	4.10.11.1 Amplification Factor:.....



195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	3.2 pF	—
Output Capacitance	5 pF	—
Grid-to-Plate Capacitance	3.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	ClassA
Grid Voltage	-18 V	ClassA
Plate Current	9 mA	ClassA