



ELECTRONIC TUBE REFERENCE

12DL8

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TETRODE

Two-diode space-charge-grid tetrode developed as an automobile-radio audio driver, operating directly from 12.6 V and providing useful drive power at exceptionally low plate voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 550 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Representative row for two identical detector diode units.

SECTION2 Tetrode

PLATE RESISTANCE	1140 Ω
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	7.2
MAXIMUM PLATE VOLTAGE	30 V
MAXIMUM SCREEN VOLTAGE	20 V

Space-charge-grid tetrode; control grid is published as grid #2 and space-charge grid as grid #1.

SECTION3 Diode

No fixed ratings recorded.

Added approved missing physical diode section row.

The 12DL8 combines two detector diodes with a high-current space-charge-grid tetrode intended for audio power-amplifier service using a nominal 12-volt automotive battery supply.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Space-charge-grid audio driver	—
AutomotiveSupplyVoltage	12.6 V	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum average diode current	5 mA	EachDiode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode current at 10 V applied	3 mA	EachDiode

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	12.6 V	ClassA1
Control grid voltage	-0.5 V	ClassA1
Space-charge grid voltage	12.6 V	ClassA1
Plate current	40 mA	ClassA1
Power output	40 mW	ClassA1
Maximum heater-cathode voltage	30 V	WholeTube