



ELECTRONIC TUBE REFERENCE

7724

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Double-diode triode combining radio detector and AVC rectification with subsequent voltage amplification. The paired diodes handle signal and control-voltage functions while the triode provides receiver audio or voltage gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM CATHODE CURRENT	5 mA
Diode section 1.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	5 mA
Diode section 2.	

SECTION3 Triode	
PLATE RESISTANCE	72000 Ω
TRANSCONDUCTANCE	0.001 S
AMPLIFICATION FACTOR	72
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	5 mA
<i>High-mu triode section.</i>	

Twin-diode high-mu triode for mobile-communications detector and audio voltage-amplifier service; co-designated 7724/14GT8.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Diode

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode plate-to-cathode capacitance	2.4 pF	EachDiode

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Section 2 · Diode

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode plate-to-cathode capacitance	2.4 pF	EachDiode

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Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	14 V	—
Heater current	150 mA	—
Plate voltage	250 V	Triode
Grid voltage	-3 V	Triode
Plate current	0.7 mA	Triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	330 V	Triode
Maximum plate dissipation	1.1 W	Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	72	Triode
Plate resistance	72000 ohm	Triode
Transconductance	1000 uS	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode grid-to-plate capacitance	1.8 pF	Triode

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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