



ELECTRONIC TUBE REFERENCE

6542

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Cold-cathode gas-discharge voltage regulator for heaterless shunt stabilization or reference service in electronic power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	3
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Voltage Regulator	
MAXIMUM PLATE VOLTAGE	225 V
MAXIMUM CATHODE CURRENT	25 mA
REGULATOR VOLTAGE	150 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	25 mA
STARTING VOLTAGE	180 V
MAINTAINING VOLTAGE	150 V
<i>Published maximum ratings and typical characteristics promoted from the approved source; identical repeated sections compressed where applicable.</i>	

Two-electrode inert-gas-filled cold-cathode subminiature voltage regulator maintaining approximately 150 V over its rated current range. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	225 V	—
Maximum Cathode Current	25 mA	—
RegulatorVoltage	149 V	—
RegulatorCurrentMinimum	5 mA	—
RegulatorCurrentMaximum	25 mA	—
RegulatorStartingVoltage	180 V	—
RegulatorMaintainingVoltage	149 V	—



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 1 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode breakdown voltage maximum	180 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop average	147 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop minimum	140 V	—
Tube voltage drop maximum	168 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM	25 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Regulator minimum current	5 mA	Promoted section value from the supplied datasheet.
Regulator maximum current	25 mA	Promoted section value from the supplied datasheet.
Regulator starting/breakdown voltage	180 V	Promoted section value from the supplied datasheet.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MINIMUM	-5 C	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
ANODE BREAKDOWN VOLTAGE	1 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP – published value 1	1 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TUBE VOLTAGE DROP – published value 2	147 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TUBE VOLTAGE DROP – published value 3	168 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Regulator voltage	150 V	Promoted section value from the supplied datasheet.
Regulator maintaining voltage	150 V	Promoted section value from the supplied datasheet.

TUBE TINKER

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