



ELECTRONIC TUBE REFERENCE

5783WA

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Ruggedized cold-cathode glow-discharge voltage-reference tube providing approximately 85–86 V with controlled noise and transient behavior.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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	
REGULATOR VOLTAGE	85 V
MINIMUM REGULATOR CURRENT	1.5 mA
MAXIMUM REGULATOR CURRENT	3.5 mA
STARTING VOLTAGE	140 V
MAINTAINING VOLTAGE	85 V
Published promoted fields populated semantically; identical repeated sections compressed.	

The 5783WA is an inert-gas-filled cold-cathode glow-discharge reference diode for regulated supplies, designed for low voltage drift and long life with high shock and vibration ratings.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reference Voltage	86 V	Approximately
Minimum Operating Current	1.5 mA	Regulation range
Maximum Operating Current	3.5 mA	Regulation range
Transient Voltage Variation	5 mV	Maximum over regulation range

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaintainingVoltage	85 V	GlowDischarge

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaintainingCurrentMinimum	0.5 mA	—
MaintainingCurrentMaximum	10 mA	—

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4
Section 1 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC operating current	3.5 mA	WholeTube
Minimum DC operating current	1.5 mA	WholeTube
Average operating voltage	85.5 V	TypicalOperation
Maximum voltage jump	5 mV	WholeTube
Maximum noise	20 mV	WholeTube
Maximum shunt capacitance	0.02 uF	WholeTube

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating voltage range	81–92 V	TypicalOperation
Operating current range	1.5–3.5 mA	TypicalOperation
Minimum starting/anode supply voltage	140 V	Starting