

ELECTRONIC TUBE REFERENCE

6663

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
DIODE-DIODE

High-perveance industrial twin diode for FM discrimination, clipping, switching, isolation, and related signal-rectification applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM CATHODE CURRENT	9 mA
PEAK INVERSE VOLTAGE	275 V
NOMINAL OUTPUT CURRENT	10 mA
PEAK FORWARD CURRENT	60 mA
FORWARD VOLTAGE DROP	10 V
Alias/co-designation of 6AL5; Representative row for two electrically identical diodes.	

SECTION2 Diode	
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM CATHODE CURRENT	9 mA
Physical second diode section added during approved section-structure reconciliation.	

High-perveance miniature twin diode for FM discriminator, clipping, switching, and isolation circuits. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Voltage	275 V	—
Nominal DC Output Current	10 mA	—
Peak Forward Current	350 mA	—
AC Plate Voltage per Plate	117 V	—
DC Output Current per Plate	9 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	10 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	150 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
EquivalentType	6AL5	RenewalUse


SOURCE DATA APPENDIX

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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal
Plate voltage	275 V	Published operating table; OperatingPoint1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Diode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	150 mA	—
EquivalentElectricalType	6AL5	—
Plate To Cathode Capacitance	3.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	330 V	—
PeakPlateCurrentMaximum	54 mA	—
DCAOutputCurrentMaximum	9 mA	—



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 · Diode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
VOLTAGE OPERATION – published value 1	6.3 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
VOLTAGE OPERATION – published value 2	1.3 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PEAK INVERSE PLATE VOLTAGE	275 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
STEADY-STATE PEAK PLATE CURRENT PER PLATE	60 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC OUTPUT CURRENT PER PLATE	10 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	275 V	Promoted section value from the supplied datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal
Maximum peak inverse plate voltage	275 V	Promoted published value
PEAK INVERSE PLATE VOLTAGE	275 V	Maximum Ratings, Design-Maximum Values:
PEAK PLATE CURRENT	60 mA	Maximum Ratings, Design-Maximum Values:
DC PLATE CURRENT	10 mA	Maximum Ratings, Design-Maximum Values:
Heater negative with respect to cathode	275 V	Maximum Ratings, Design-Maximum Values:
Heater positive with respect to cathode	100 V	Maximum Ratings, Design-Maximum Values:
Heater Voltage	6.3 V	Characteristics:
much as	35 V	Characteristics:
volts	7.5 V	Characteristics:

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward/plate current	60 mA	Promoted published value
Nominal/DC output current	10 mA	Promoted published value
Voltage	20 V	—
Current at	0.3 V	—
Plate Voltage	10 V	Characteristics:
Plate Current	60 mA	Characteristics:

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
135 volts positive with respect to cathode, and all other	135 V	Characteristics:

TUBE TINKER

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

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