



ELECTRONIC TUBE REFERENCE

5829WA

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

Premium rugged subminiature twin diode with independently shielded sections for military and industrial detector service to approximately 400 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	350 V
NOMINAL OUTPUT CURRENT	5 mA
PEAK FORWARD CURRENT	27.5 mA
FORWARD VOLTAGE DROP	5 V
MAXIMUM HEATER-CATHODE VOLTAGE	360 V
Published promoted fields populated semantically; identical repeated sections compressed.	

SECTION2 Diode	
No fixed ratings recorded.	
Second physical diode section added in approved section-structure reconciliation.	

Premium subminiature cathode-type double diode with independently shielded sections, usable to about 400 MHz and intended for military and industrial equipment exposed to severe shock and vibration.



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	150 mA	Nominal
Maximum Peak Inverse Voltage	350 V	—
Rectified Output Current	5 mA	—
PeakForwardCurrent	27.5 mA	—
PlateSupplyVoltageRMS	117 V	Each plate
Load Resistance	14000 ohm	Full-wave operation



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
MaximumDiodeCurrent	9 mA	EachSection



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 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	150 mA	—
Maximum AC plate-supply voltage per section	130 V	—
Maximum surge current per section	175 mA	—
Minimum effective plate-supply impedance	400 ohm	HalfWave
DC output current per plate	5 mA	HalfWave
Maximum peak inverse voltage	360 V	—
Nominal DC output current	5.5 mA	—
Maximum peak forward current	33 mA	—
Forward voltage drop	5 V	—
Maximum heater-cathode voltage	360 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop at 15 mA	5 V	HalfWave

TUBE TINKER

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

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