

ELECTRONIC TUBE REFERENCE

5903

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-DIODE

High-perveance double diode for detector applications in low-current series-string equipment, using an unusual 26.5 V, 75 mA heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DJ	BASE PINS	8
NOMINAL HEATER	26.5 V / 75 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8DJ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2K	B	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – SH	A	SH – Internal Shield	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN6 – H	–	H – Heater	CONNECTED
PIN7 – 1K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Diode	
PEAK INVERSE VOLTAGE	460 V
NOMINAL OUTPUT CURRENT	10 mA
PEAK FORWARD CURRENT	60 mA
FORWARD VOLTAGE DROP	4.5 V
<i>Two electrically identical diode sections; one representative section emitted under identical-section compression.</i>	

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

High-perveance double diode with separate cathodes and a 26.5-volt heater for detector applications.



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 plate voltage	460 V	Each diode
Steady state peak plate current	60 mA	Each diode
Transient peak plate current	350 mA	Each diode



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Output Current Per Plate	10 mA	FullWave
Maximum Peak Inverse Voltage	460 V	FullWave
RMS Supply Voltage Per Plate	150 V	FullWave
Maximum Peak Current Per Plate	60 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	4.5 V	FullWave
Forward Voltage Drop Test Current	18 mA	FullWave

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