

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

6BF8

6 SECTIONS
CONSTRUCTION
OTHER

Specialized - Radiation Counter electronic tube

Miniature sextuple diode containing six diode sections for shunt-detector applications involving multiple input signals. The manufacturer documentation identifies it as an electronic signal detector rather than a nuclear-radiation counter.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9NX	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9NX - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	F	P – Plate (Anode)	CONNECTED
PIN2	E	P – Plate (Anode)	CONNECTED
PIN3	D	P – Plate (Anode)	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	K – Cathode	CONNECTED
PIN7	C	P – Plate (Anode)	CONNECTED
PIN8	B	P – Plate (Anode)	CONNECTED
PIN9	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Other

No fixed ratings recorded.

Representative row for six identical detector-diode sections; detector PIV/current data are preserved in parameters rather than rectifier-specific promoted fields.

The 6BF8 is a miniature sextuple diode suitable for shunt-detector applications in which a number of input signals are encountered.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Other

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	165 V	EachDiode
Peak Plate Current Per Plate	11 mA	EachDiode
DCOutputCurrentPerPlate	2.2 mA	EachDiode
HeaterCathodeVoltagePositive	100 V	EachDiode
HeaterCathodeVoltageNegative	100 V	EachDiode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube Voltage Drop	1.4 V	EachDiode; PlateCurrent=5mA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Cathode And Heater Capacitance	2.6 pF	Section1
Plate To Cathode And Heater Capacitance	2.8 pF	Section2
Plate To Cathode And Heater Capacitance	2.6 pF	Section3
Plate To Cathode And Heater Capacitance	4 pF	Section4
Plate To Cathode And Heater Capacitance	4 pF	Section5
Plate To Cathode And Heater Capacitance	3.8 pF	Section6
Plate To All Capacitance	4.4 pF	EachDiode

TUBE TINKER

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