

ELECTRONIC TUBE REFERENCE

6851

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Bendix 6851 rugged high-mu miniature dual triode with hard-glass 300°C envelope, 6.3 V 250 mA heater and 10,000-hour rated life.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 250 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9A - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1K	A	K – Cathode	CONNECTED
PIN9 – HCT	–	HCT – Heater Center Tap	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	8 mA
<i>Bendix 6851 TE-42 1957, physical triode section 1, separate cathode. Maximum plate 330 V, dissipation 1.0 W, cathode current 8 mA, grid circuit resistance 1 MΩ, heater-cathode 300 V. Typical Class A1 at heater 6.3 V, plate 250 V, cathode resistor 3100 Ω: Ia 1.0 mA, rp 60000 Ω, gm 0.0012 A/V, mu 70. Cgp 1.4 pF, input 1.6 pF, output 0.36 pF. Hard-glass bulb rated 300°C, 10000-hour life, 9A basing, pins 6 plate, 7 grid, 8 cathode.</i>	

SECTION2 Triode	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	8 mA
<i>Bendix 6851 TE-42 1957, physical triode section 2, separate cathode. Maximum plate 330 V, dissipation 1.0 W, cathode current 8 mA, grid circuit resistance 1 MΩ, heater-cathode 300 V. Typical Class A1 at heater 6.3 V, plate 250 V, cathode resistor 3100 Ω: Ia 1.0 mA, rp 60000 Ω, gm 0.0012 A/V, mu 70. Cgp 1.4 pF, input 1.6 pF, output 0.36 pF. Hard-glass bulb rated 300°C, 10000-hour life, 9A basing, pins 1 plate, 2 grid, 3 cathode.</i>	

Miniature hard-glass high-mu double triode.

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