



ELECTRONIC TUBE REFERENCE

10KU8

Voltage - Pentode or Tetrode (with diode) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Frame-grid sharp-cutoff pentode combined with two diode sections for television video amplification and horizontal phase-detector service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	10.2 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

RCA/Sylvania first physical diode for TV horizontal phase detector. Diode capacitances published. Typical diode current about 2 mA at 10 V applied is not a maximum current rating. Shared 10.2 V, 0.45 A series heater.

SECTION2 Diode

No fixed ratings recorded.

Second separate diode for horizontal phase detection. Datasheet publishes capacitance and about 2 mA typical current at 10 V applied; this is not a maximum rating. Heater 10.2 V, 0.45 A.

SECTION3 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.02 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>RCA/Sylvania frame-grid sharp-cutoff TV video-amplifier pentode. Maximum plate 330 V, plate dissipation 4 W, screen dissipation 1.1 W for screen voltages up to 165 V; higher conditions use rating chart. Typical operating plate 200 V, screen 100 V, cathode resistor 82 ohms; gm 20 mA/V, plate resistance $\sim 50\text{ k}\Omega$. Interelectrode capacitances published; two separate horizontal phase-detector diodes are also present.</i>	

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TUBE TINKER

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and their source documents.

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