ELECTRONIC TUBE REFERENCE

ST3183E

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Sylvania ST3183-family cathode-ray display tube with a 6.3 V heater, high-voltage anode operation to about 13 kV, and manufacturer-defined focusing and beam-control characteristics.

General characteristics

BASE DESIGNATION	E9-37	**BASE PINS**	9
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 Cathode Ray

MAXIMUM PLATE VOLTAGE	13000 V

Monitor CRT; family variant transmittance: 92% face; 14% cover; 15% combined.

Monitor CRT with electrostatic focus and magnetic deflection, aluminized P4 screen, bonded shield, and variant-specific face/cover transmission.

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	**6.3 V**	—
Heater current	**270 mA–330 mA**	—
Anode voltage maximum	**13000 V**	—
Grid No. 4 focus-electrode voltage range maximum rating	**-550 to 1100 V**	—
Grid No. 2 voltage maximum	**550 V**	—
Grid No. 1 negative bias maximum	**-155 V**	—
Grid No. 1 positive bias maximum	**0 V**	—
Grid No. 1 positive peak maximum	**2 V**	—
Peak heater-cathode voltage maximum	**100 V**	—
Anode voltage	**——10000 V**	—
Grid No. 4 focus voltage	**-125–300 V**	—
Grid No. 2 voltage	**300 V**	—
Grid No. 1 cutoff voltage	**-60–-40 V**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Emission warm-up time approximately	**30 s**	—
Brightness at 100 uA anode current minimum	**60 ft-L**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Face transmittance approximately	**92 %**	—
Cover transmittance approximately	**14 %**	—
Combined transmittance approximately	**15 %**	—

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Cathode to all other electrodes capacitance maximum	**10 pF**	—
Grid No. 1 to all other electrodes capacitance maximum	**15 pF**	—
External conductive coating to anode capacitance	**200–350 pF**	—

CIRCUITVALUE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid No. 1 circuit resistance maximum	**1.5 Mohm**	—