



ELECTRONIC TUBE REFERENCE

ST3183

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	13000 V
<i>Ratings and characteristics promoted from the supplied Sylvania source where explicitly published.</i>	

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



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 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	300 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
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	—
Face transmittance approximately	92 %	—
Combined transmittance approximately	92 %	—

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	—