ELECTRONIC TUBE REFERENCE

SC3561P7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

SC3561-family special-purpose CRT with electrostatic focusing and deflection and a P7 long-persistence screen, supporting retained precision display, recording, character-writing, oscillographic, or electrostatic-printing applications.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	6.3 V / 600 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	5500 V

Published Sylvania CRT maximum ratings and operating characteristics promoted/extracted from supplied source.

Sylvania SC3561P7 special-purpose CRT with electrostatic focus and electrostatic deflection; P7 long-persistence. Published high-voltage ratings, focus/deflection data, capacitances, circuit limits, and typical operating conditions were extracted from the supplied datasheet.

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

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	**6.3 V**	—
Heater Current	**600 mA**	—
FocusingMethod	**Electrostatic**	—
DeflectionMethod	**Electrostatic**	—
PhosphorOrScreen	**P7 long-persistence**	—
UsefulScreenOrScan	**multi-gun**	—
DeflectionFactorUniformityMaximum	**1.5 %**	—
InteractionFactorMaximum	**0.00006 in/V**	—
UsefulScanD1D2	**7.5 in**	—
UsefulScanD3D4	**7.375 in**	—
Grid1 To All Capacitance	**8 pF**	—
Cathode To All Capacitance	**6 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	**5500 V**	—
Grid1NegativeBiasMagnitudeMaximum	**220 V**	—
Grid1PositiveBiasMaximum	**0 V**	—
Grid1PositivePeakVoltageMaximum	**2 V**	—
Grid1CircuitResistanceMaximum	**1.5 Mohm**	—
HeaterCathodeVoltageMaximum	**200 V**	AfterWarmup
PeakVoltageAnodeToDeflectionPlate	**550 V**	—
Anode2VoltageMaximum	**5500 V**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AstigmatismElectrodeVoltageMaximum	**5500 V**	—
FocusElectrodeVoltageMaximum	**3000 V**	—
PeakVoltageAnodeToDeflectionPlate	**1500 V**	—
Anode Voltage	**5000 V**	—
FocusElectrodeVoltage	**850 to 1500 V**	—
Grid1VoltageForCutoff	**-50 to -100 V**	—
DeflectionFactorD1D2	**80 V/in**	—
DeflectionFactorD3D4	**80 V/in**	—