ELECTRONIC TUBE REFERENCE

R79AV

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PHOTOEMISSIVEDETECTOR

Visitron high-vacuum S1 phototube with an extra-large cathode for theatre projection equipment. Its vacuum construction provides stable direct detection over a large illuminated area.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	_ / _	**PARALLEL HEATER**	_ / _
HEATING	Indirect; cold cathode	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 PhotoemissiveDetector

MAXIMUM PLATE VOLTAGE	500 V

Photoelectric section. Published anode-cathode capacitance approximately 2.0 pF.

The Visitron R79 is a tube having an extra large cathode designed for a maximum area of light beam, commonly used in standard theatre projection equipment. A sturdy tube to give constant quality Identical to the R79 series in electrical and four prong base instead of flexible leads. This variant uses the S1 cathode surface described by the family datasheet. The V variant is the higher-voltage vacuum version listed in the maximum-ratings table.

SOURCE OPERATING CONDITIONS

195X Visitron Rauland

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

195X VISITRON RAULAND

Section 1 · PhotoemissiveDetector

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Peak Anode Voltage	**500 V**	Variant-specific maximum rating
Anode-Cathode Capacitance	**2 pF**	Variant-specific general characteristic
Cathode Size [1]	**1.625**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [2]	**125**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [3]	**1.625**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [4]	**125**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [5]	**1.625**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [6]	**125**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [7]	**1.625**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Cathode Size [8]	**125**	Cathode Size.. ... . 1.625"x1.125" 1.625"x1.125" 1.625"x1.125" 1.625"x1.125"
Capacitance (Anode-Cathode) [1]	**2.5 pF**	Capacitance (Anode-Cathode) ... 2.5 MMF. 2.0 MMF. 2.5 MMF. 2.0 MMF.
Capacitance (Anode-Cathode) [2]	**2 pF**	Capacitance (Anode-Cathode) ... 2.5 MMF. 2.0 MMF. 2.5 MMF. 2.0 MMF.
Capacitance (Anode-Cathode) [3]	**2.5 pF**	Capacitance (Anode-Cathode) ... 2.5 MMF. 2.0 MMF. 2.5 MMF. 2.0 MMF.
Capacitance (Anode-Cathode) [4]	**2 pF**	Capacitance (Anode-Cathode) ... 2.5 MMF. 2.0 MMF. 2.5 MMF. 2.0 MMF.
Leakage Resistance (Min) [1]	**1000 Mohm**	Leakage Resistance (Min) . . . . 1000 Meg. 1000 Meg. 1000 Meg. 1000 Meg.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Leakage Resistance (Min) [2]	**1000 Mohm**	Leakage Resistance (Min) . . . . 1000 Meg. 1000 Meg. 1000 Meg. 1000 Meg.
Leakage Resistance (Min) [3]	**1000 Mohm**	Leakage Resistance (Min) . . . . 1000 Meg. 1000 Meg. 1000 Meg. 1000 Meg.
Leakage Resistance (Min) [4]	**1000 Mohm**	Leakage Resistance (Min) . . . . 1000 Meg. 1000 Meg. 1000 Meg. 1000 Meg.
Anode Voltage, Peak. oo [1]	**9 V**	Anode Voltage, Peak. oo 9oV SO0V v 500V
Anode Voltage, Peak. oo [2]	**500 V**	Anode Voltage, Peak. oo 9oV SO0V v 500V
Luminous Sensitivity [1]	**225 V**	Luminous Sensitivity . . .. 225 uwA/L DC 40 uA/L DC 225 uA/L DC 40 vA/L DC
Luminous Sensitivity [2]	**40 V**	Luminous Sensitivity . . .. 225 uwA/L DC 40 uA/L DC 225 uA/L DC 40 vA/L DC
Luminous Sensitivity [3]	**225 V**	Luminous Sensitivity . . .. 225 uwA/L DC 40 uA/L DC 225 uA/L DC 40 vA/L DC
Luminous Sensitivity [4]	**40 V**	Luminous Sensitivity . . .. 225 uwA/L DC 40 uA/L DC 225 uA/L DC 40 vA/L DC
Luminous Sensitivity ([1]	**25 V**	Luminous Sensitivity (25v) .. .. 40 vA/L DC 35 uA/L DC 40 uA/L DC 35 uA/L DC
Luminous Sensitivity ([2]	**40 V**	Luminous Sensitivity (25v) .. .. 40 vA/L DC 35 uA/L DC 40 uA/L DC 35 uA/L DC
Luminous Sensitivity ([3]	**35 V**	Luminous Sensitivity (25v) .. .. 40 vA/L DC 35 uA/L DC 40 uA/L DC 35 uA/L DC
Luminous Sensitivity ([4]	**40 V**	Luminous Sensitivity (25v) .. .. 40 vA/L DC 35 uA/L DC 40 uA/L DC 35 uA/L DC
Luminous Sensitivity ([5]	**35 V**	Luminous Sensitivity (25v) .. .. 40 vA/L DC 35 uA/L DC 40 uA/L DC 35 uA/L DC
Gas Amplification [1]	**8**	Gas Amplification .. . . 8 -- - 8 .- -
Gas Amplification [2]	**8**	Gas Amplification .. . . 8 -- - 8 .- -
Temperature, ambient [1]	**100 C**	Temperature, ambient .. .. 100°C 100°C 100°C 100°C
Temperature, ambient [2]	**100 C**	Temperature, ambient .. .. 100°C 100°C 100°C 100°C
Temperature, ambient [3]	**100 C**	Temperature, ambient .. .. 100°C 100°C 100°C 100°C
Temperature, ambient [4]	**100 C**	Temperature, ambient .. .. 100°C 100°C 100°C 100°C