

ELECTRONIC TUBE REFERENCE

R85AV

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Non-directional Visitron high-vacuum phototube with 360-degree optical pickup. Designed for multidirectional sensing in target games and burglar or fire alarms, it provides stable direct photoelectric detection.

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.	

A non-directional Visitron Phototube hav- ing a 360° pickup. Features an increased sensitivity due to utilization of all energy from the light source. Ideal wherever multi-directional applications are employed such as electronic operated target games, multiple beam burglar and fire alarms, etc. 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
ing a	360 V	ing a 360° pickup. Features an increased sensitivity
Cathode Size [1]	1	Cathode Size 1.000" x .500" 1.000" x .500"
Cathode Size [2]	500	Cathode Size 1.000" x .500" 1.000" x .500"
Cathode Size [3]	1	Cathode Size 1.000" x .500" 1.000" x .500"
Cathode Size [4]	500	Cathode Size 1.000" x .500" 1.000" x .500"
Capacitance (Anode-Cathode) [1]	2.5 pF	Capacitance (Anode-Cathode)..... 2.5 MMF. 2.0 MMF.
Capacitance (Anode-Cathode) [2]	2 pF	Capacitance (Anode-Cathode)..... 2.5 MMF. 2.0 MMF.
Leakage Resistance (Min) [1]	1000 Mohm	Leakage Resistance (Min)..... 1000 Meg. 1000 Meg.
Leakage Resistance (Min) [2]	1000 Mohm	Leakage Resistance (Min)..... 1000 Meg. 1000 Meg.
Anode Voltage, Peak [1]	9 V	Anode Voltage, Peak..... 9oVv 500V
Anode Voltage, Peak [2]	500 V	Anode Voltage, Peak..... 9oVv 500V
Luminous Sensitivity [1]	175 V	Luminous Sensitivity..... 175 wA/L DC 40 uA/L DC
Luminous Sensitivity [2]	40 V	Luminous Sensitivity..... 175 wA/L DC 40 uA/L DC
Luminous Sensitivity ([1]	25 V	Luminous Sensitivity (25v)..... 40 uA/L DC 37 uA/L DC
Luminous Sensitivity ([2]	40 V	Luminous Sensitivity (25v)..... 40 uA/L DC 37 uA/L DC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Luminous Sensitivity ([3]	37 V	Luminous Sensitivity (25v)..... 40 uA/L DC 37 uA/L DC
Gas Amplification	8	Gas Amplification. 8 - - -
Temperature, ambient [1]	100 C	Temperature, ambient..... 100°C 100°C
Temperature, ambient [2]	100 C	Temperature, ambient..... 100°C 100°C