

ELECTRONIC TUBE REFERENCE

R50AV

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Miniature end-view vacuum phototube with S1 red/infrared response for compact electronic control equipment.

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.	

This midget end view tube was designed for applications where space limitation is the controlling factor. Especially adaptable to extremely small electronic control devices. Idedal in use of multiple phototube banks for controlling the moving This miniature tube fits perfectly with the compact designs of Anode Voltage, Peak 0V 500V 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]	500	Cathode Size .500" Dia. .500"" Dia.
Cathode Size [2]	500	Cathode Size .500" Dia. .500"" Dia.
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]	0 V	Anode Voltage, Peak 0V 500V
Anode Voltage, Peak [2]	500 V	Anode Voltage, Peak 0V 500V
Luminous Sensitivity [1]	200 V	Luminous Sensitivity 200 uA/L DC 35uA/LDC
Luminous Sensitivity [2]	35 V	Luminous Sensitivity 200 uA/L DC 35uA/LDC
Luminous Sensitivity ([1]	25 V	Luminous Sensitivity (25v) 30 uA/L DC 30uA/LDC
Luminous Sensitivity ([2]	30 V	Luminous Sensitivity (25v) 30 uA/L DC 30uA/LDC
Luminous Sensitivity ([3]	30 V	Luminous Sensitivity (25v) 30 uA/L DC 30uA/LDC
Gas Amplification	10	Gas Amplification 10 ---
Temperature, ambient [1]	100 C	Temperature, ambient 100°C 100°C
Temperature, ambient [2]	100 C	Temperature, ambient 100°C 100°C