

Visitron high-vacuum S1-cathode phototube for industrial light-operated relay service. The vacuum version operates at higher anode voltage without gas multiplication, providing 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.	

short glass envelope. This tube is recom- mended for industrial light operated relay Anode Voltage, Peak..... QoVv 500V Luminous Sensitivity..... 200 uA/L DC 37 uA/L DC Luminous Sensitivity (25v)..... 35 uA/L DC 35 uA/L DC Gas Amplification. 10 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	750	Cathode Size..... 750"
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..... QoVv	500 V	Anode Voltage, Peak..... QoVv 500V
Luminous Sensitivity [1]	200 V	Luminous Sensitivity..... 200 uA/L DC 37 uA/L DC
Luminous Sensitivity [2]	37 V	Luminous Sensitivity..... 200 uA/L DC 37 uA/L DC
Luminous Sensitivity ([1]	25 V	Luminous Sensitivity (25v)..... 35 uA/L DC 35 uA/L DC
Luminous Sensitivity ([2]	35 V	Luminous Sensitivity (25v)..... 35 uA/L DC 35 uA/L DC
Luminous Sensitivity ([3]	35 V	Luminous Sensitivity (25v)..... 35 uA/L DC 35 uA/L DC
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