



ELECTRONIC TUBE REFERENCE

R60AV

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PHOTOEMISSIVE DETECTOR

Dual-channel vacuum phototube with two independent S1 cathodes and anodes for compact dual sound-track reproduction.

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

SECTION 1 Photoemissive Detector

MAXIMUM PLATE VOLTAGE	500 V
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Photoelectric section. Published anode-cathode capacitance approximately 2.0 pF. Representative row for two physically identical photoelectric sections.

two cathodes and two anodes brought out to separate prongs. Designed primarily for dual sound track systems, it is also ideal wherever dual tube operation is required and space is Anode Voltage, Peak..... 90V S00V Luminous Sensitivity (ea. Cathode). . . . 175uA/LDC 37uA/LDC 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 (each Cathode) [1]	1.25	Cathode Size (each Cathode)..... 1.250" x .310" 1.250" x .310"
Cathode Size (each Cathode) [2]	310	Cathode Size (each Cathode)..... 1.250" x .310" 1.250" x .310"
Cathode Size (each Cathode) [3]	1.25	Cathode Size (each Cathode)..... 1.250" x .310" 1.250" x .310"
Cathode Size (each Cathode) [4]	310	Cathode Size (each Cathode)..... 1.250" x .310" 1.250" x .310"
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]	90 V	Anode Voltage, Peak..... 90V S00V
Anode Voltage, Peak [2]	0 V	Anode Voltage, Peak..... 90V S00V
Luminous Sensitivity (ea. Cathode) [1]	175 V	Luminous Sensitivity (ea. Cathode). ... 175uA/LDC 37uA/LDC
Luminous Sensitivity (ea. Cathode) [2]	37 V	Luminous Sensitivity (ea. Cathode). ... 175uA/LDC 37uA/LDC
Luminous Sensitivity ([1]	25 V	Luminous Sensitivity (25v) (ea.Cathode). 30uA/L DC 35uA/LDC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Luminous Sensitivity ([2]	30 V	Luminous Sensitivity (25v) (ea.Cathode). 30uA/L DC 35uA/LDC
Luminous Sensitivity ([3]	35 V	Luminous Sensitivity (25v) (ea.Cathode). 30uA/L DC 35uA/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