



5652

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VACUUM PHOTOTUBE

COMPOSITE ANODE-CATHODE TYPE WITH S-4 RESPONSE

DATA

General:

Spectral Response. S-4
 Wavelength of Maximum Response 4000 ± 500 Angstroms

Cathode:

Shape. Flat
 Minimum Projected Length*. $1/4"$
 Minimum Projected Width*. $19/32"$
 Direct Interelectrode Capacitance (C_1)[▲]. $1 \mu\text{f}$
 Balancing Capacitance (C_2)[□]. $1 \mu\text{f}$
 Capacitance Difference Between

C_1 and C_2 Not more than $0.3 \mu\text{f}$

Maximum Overall Length. $2-7/8"$

Maximum Seated Length. $2-5/16"$

Seated Length to Center of Cathode $1-5/8" \pm 3/32"$

Maximum Diameter $1-9/32"$

Bulb T-9

Mounting Position. Any

Base Intermediate-Shell Octal

5-Pin, Non-hygroscopic

Basing Designation for BOTTOM VIEW 2AB

Pin 1: No

Connection

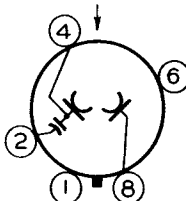
Pin 2: Balancing

Capacitance

Pin 4: Cathode or

Anode

DIRECTION OF LIGHT



Pin 6: No

Connection

Pin 8: Anode or

Cathode

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE (DC or Peak AC). 250 max. volts

PEAK CATHODE CURRENT (For
 either electrode) 12 max. μamp

PEAK CATHODE-CURRENT DENSITY 100 max. $\mu\text{amp/sq. in.}$

AVERAGE CATHODE CURRENT (For
 either electrode)[○] 4 max. μamp

AMBIENT TEMPERATURE. 75 max. $^{\circ}\text{C}$

Characteristics:

	Min.	Av.	Max.	
Dark Current at 250 Volts.	—	—	0.01	μamp

Sensitivity:

At 4000 Angstroms.	—	0.042	—	$\mu\text{amp}/\mu\text{watt}$
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Luminous	30	45	70	$\mu\text{amp}/\text{lumen}$
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* On plane perpendicular to indicated direction of incident light.

▲ Measured between base pins 4 and 8.

□ Measured between base pins 2 and 4.

○ Averaged over any interval of 30 seconds maximum.

OCTOBER 1, 1947

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

5652

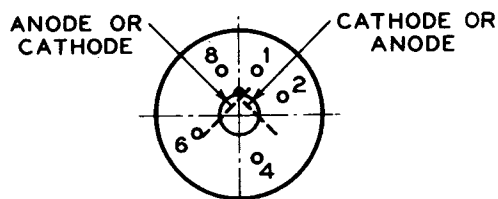
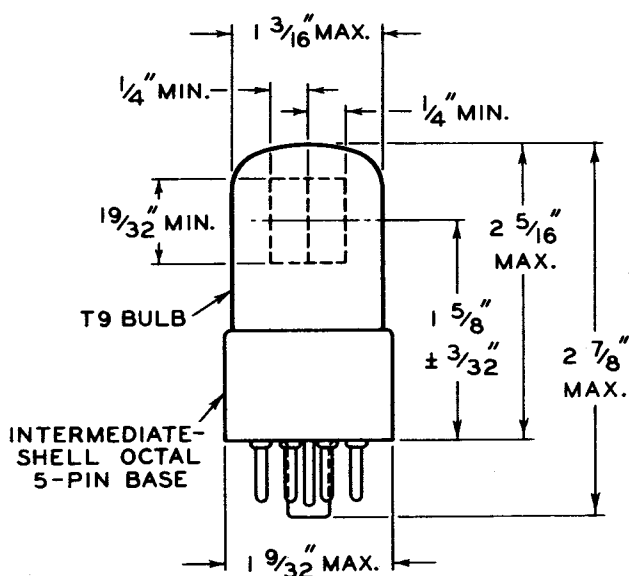
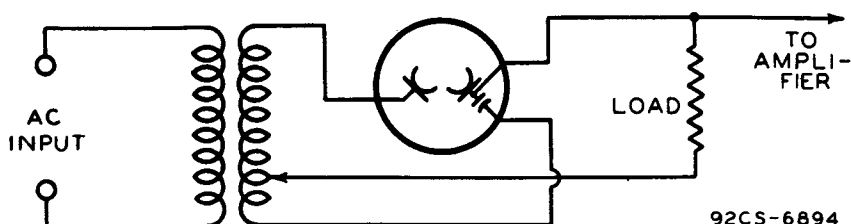


5652 VACUUM PHOTOTUBE

SPECTRAL SENSITIVITY CHARACTERISTIC
of Phototube having S-4 Response
is shown at the beginning of this Section

The curve shown under Type 929
is also applicable to the 5652

TYPICAL CIRCUIT



BOTTOM VIEW

92CS-6869



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AVERAGE OPERATION CHARACTERISTICS WITH AC VOLTAGE APPLIED BETWEEN THE TWO ELECTRODES

ILLUMINATION: 2870°K TUNGSTEN
LOAD RESISTANCE: ZERO

- DASHED CURVE (A) STATIC CHARACTERISTIC FOR ONE
ELECTRODE WITH 0.1 LUMEN
DASHED CURVE (B) STATIC CHARACTERISTIC FOR OTHER
ELECTRODE WITH 0.1 LUMEN
CURVE (C) OPERATION CURVE OBTAINED FROM STATIC
CURVES A & B; OTHER OPERATION CURVES
OBTAINED SIMILARLY

