VACUUM PHOTOTUBE
CARTRIDGE TYPE WITH S-3 RESPONSE

DATA

General:
Spectral Response .................................. S-3
Wavelength of Maximum Response ............... 4200 ± 1000 Angstroms
Cathode:
Shape ............................................... Semi-Cylindrical
Minimum Projected Length* ..................... 7/8"
Minimum Projected Width* ...................... 1/2"
Direct Interelectrode Capacitance .............. 1 μF
Overall Length ..................................... 1-21/32" ± 1/16"
Seated Length ....................................... 1-13/32" ± 1/32"
Length, Cathode Center to plane A-A' (see outline) 11/16" ± 1/16"
Maximum Diameter ................................ 0.890"
Mounting Position .................................. Any
Terminal Caps ...................................... See Outline

Maximum Ratings, Absolute Values:
ANODE-SUPPLY VOLTAGE (DC or Peak AC) .... 500 max. volts
PEAK CATHODE CURRENT ......................... 15 max. μamp
PEAK CATHODE-CURRENT DENSITY ............. 100 max. μamp/sq.in.
AVERAGE CATHODE CURRENT* .................. 5 max. μamp
AMBIENT TEMPERATURE .......................... 100 max. °C

Characteristics:

<table>
<thead>
<tr>
<th></th>
<th>Min.</th>
<th>Av.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark Current at 250 Volts</td>
<td>-</td>
<td>-</td>
<td>0.005 μamp</td>
</tr>
<tr>
<td>Sensitivity:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 4200 Angstroms</td>
<td>-</td>
<td>0.0016 μamp/μwatt</td>
<td></td>
</tr>
<tr>
<td>Luminous*</td>
<td>4</td>
<td>6.5</td>
<td>15 μamp/lumen</td>
</tr>
</tbody>
</table>

* On plane perpendicular to indicated direction of incident light.
* Averaged over any interval of 30 seconds maximum.
* Measured under conditions specified on sheet "PHOTOTUBE SENSITIVITY and SENSITIVITY MEASUREMENTS" at the front of this Section.

OUTLINE DIMENSIONS for Type 926 are the same as those for Type 921

SPECTRAL-SENSITIVITY CHARACTERISTIC of Phototube having S-3 Response is shown at the front of this Section.

Indicates a change.

JUNE 15, 1948
VACUUM PHOTOTUBE
CARTRIDGE TYPE WITH S-3 RESPONSE
For colorimetric applications

DATA

General:
Spectral Response.......................... S-3
Wavelength of Maximum Response .... 4200 ± 1000 angstroms
Cathode:
Shape........................................ Semicircular
Minimum projected length* .............. 7/8" 
Minimum projected width* .................. 1/2"
Direct Interelectrode Capacitance .... 1 μf
Overall Length .................. 1-21/32" ± 1/16"
Seated Length .................. 1-13/32" ± 1/32"
Length from Center of Useful Cathode Area to Plane A-A' (See Dimensional Outline) .. 11/16" ± 1/16"
Maximum Diameter .................. 0.890"
Weight (Approx.) .................. 0.4 oz
Mounting Position .................. Any
Terminals:
Recessed cap .................. JETEC No.J1-23
Protruding cap .................. JETEC No.J1-24
Basing Designation .................. 2AQ

DIRECTION OF LIGHT: INTO CONCAVE SIDE OF CATHODE

Recessed Cap \} Anode Protruding Cap \} Cathode

Maximum Ratings, Absolute Values:
ANODE-SUPPLY VOLTAGE (DC or Peak AC) .................. 500 max. volts
AVERAGE CATHODE-CURRENT DENSITY\* .................. 30 max. μamp/sq.in.
AVERAGE CATHODE CURRENT\* .................. 5 max. μamp
AMBIENT TEMPERATURE .................. 100 max. °C

Characteristics, At 250 Volts on Anode:

<table>
<thead>
<tr>
<th>Min.</th>
<th>Median</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity:</td>
<td></td>
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</tr>
<tr>
<td>Radiant, at 4200 angstroms</td>
<td>0.0018</td>
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</tr>
<tr>
<td>Luminous</td>
<td>4</td>
<td>6.5</td>
</tr>
<tr>
<td>Anode Dark Current, at 25°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* On plane perpendicular to indicated direction of incident light.
\* Averaged over any interval of 30 seconds maximum.
\* For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870°K. A dc anode supply of 250 volts, a 1-megohm load resistor, and a light input of 0.1 lumen are used.

Indicates a change.
DIMENSIONAL OUTLINE
for Type 926 is the same as that shown for Type 921

SPECTRAL-SENSITIVITY CHARACTERISTIC
of Phototube having S-3 Response
is shown at the front of this Section

AVERAGE ANODE CHARACTERISTICS