



5584

5584 GAS PHOTOTUBE

BLUE SENSITIVE, TWIN TYPE

General:		<u>DATA</u>
Spectral Response		S-4
Wavelength of Maximum Response	4000 ± 500 Angstroms	
Cathode (Each):		
Shape		Quarter-Cylindrical
Minimum Projected Length*		1-3/16"
Minimum Projected Width*		1/4"
Direct Interelectrode Capacitances:		
Cathode to Anode ♦	1.6	μf
Cathode to Cathode ■	1.8	μf
Anode to Anode ●	0.44	μf
Maximum Overall Length		4"
Maximum Seated Length		3-3/8"
Seated Length to Center of Cathode	2-1/8" ± 3/32"	
Maximum Diameter		1-3/16"
Bulb		T-9
Mounting Position		Any
Base	Small-Shell Small	4-Pin
Basing Designation for BOTTOM VIEW		4BG

Pin 1 - Cathode,
Unit No.2
Pin 2 - Anode,
Unit No.2



Pin 3 - Anode,
Unit No.1
Pin 4 - Cathode,
Unit No.1

DIRECTION OF LIGHT

Maximum Ratings, Absolute Values (Each Unit):

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	100 max.	volts
PEAK CATHODE CURRENT	10 max.	μamp
PEAK CATHODE-CURRENT DENSITY	50 max.	μamp/sq.in.
AVERAGE CATHODE CURRENT ^o	2 max.	μamp
AMBIENT TEMPERATURE	75 max.	°C

Characteristics (Each Unit):

	<u>Min.</u>	<u>Av.</u>	<u>Max.</u>	
Dark Current at 90 Volts . .	-	-	0.050	μamp
Sensitivity:				
At 4000 Angstroms	-	0.11	-	μamp/μwatt
Luminous:				
At 0 Cycles	80	120	175	μamp/lumen
At 5000 Cycles	-	110	-	μamp/lumen
At 10000 Cycles	-	96	-	μamp/lumen
Gas Amplification Factor . .	-	-	5.5	

Minimum Circuit Values (Each Unit):

DC Load Resistance:

With anode-supply voltage of 80 volts or less

{	For dc currents	above 3 μamp	0.1	megohm
		below 3 μamp	No Minimum	

* , ♦ , ■ , ● , °: See next page.

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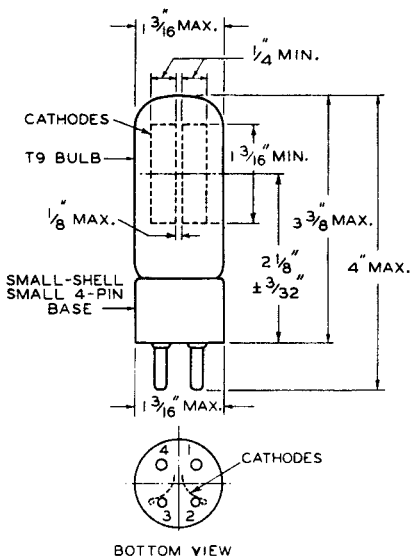
With anode-supply voltage of 100 volts

For dc currents { above 1 μ amp . . . 2.5 megohms
 below 1 μ amp . . . 0.1 megohm

- * On plane perpendicular to indicated direction of incident light.
- ◆ Each unit, with other unit grounded.
- Anodes grounded.
- Cathodes grounded.
- Averaged over any interval of 30 seconds maximum. Average current may be doubled when anode-supply voltage is limited to 80 volts.

SPECTRAL-SENSITIVITY CHARACTERISTIC
 and
 FREQUENCY-RESPONSE CHARACTERISTIC
 of Gas Phototube having S-4 Response
 are shown at beginning of this Section

AVERAGE ANODE CHARACTERISTICS
 of Type 5584 are the same
 as those shown under Type 5582



92CM-4561R3