

# RCA PHOTOCELL CHART

## PHOTOCONDUCTIVE CELLS

(Cadmium sulfide; S-15 spectral response except as noted)

RCA TYPE	Maximum Ratings				Characteristics at 25°C			
	DC or Peak AC Voltage Between Terminals	Power Dissipation** (watt)	Photo-current (ma)	Ambient Temperature Range (°C)	Volts Between Terminals	Illumination (fc)	Photo-current (ma)	Maximum Decay Current (μa)
4402	200	0.05	5	-75 to 60	12 (dc)	10	1.6 min	12
4403	250	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	7-16	78
4404	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	2.5-5	40
4413	110	0.05	5	60	12 (dc)	10	1-2.75	12
4423	250	0.2	20	-75 to 60	50 (ac)	1	1.5-4	40
4424	110	0.2	50	-75 to 60	12 (dc)	1	3.6-14.5	80
4425	110	0.2	50	-75 to 60	12 (dc)	1	3.6-14.5	80
4448	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	1.5-4	40
4453	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	3-7	40
6694A*	150	00.3	—	0 to 70	90 (dc)	30	0.057-0.65	0.1
7163	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	1-3	40
7412	200	0.05	1	60	12 (dc)	1	0.065-0.275	1
7536	200	0.05	1	60	12 (dc)	1	0.065-0.275	1
SQ2500	250	0.2	20	-40 to 60	12 (dc)	1	0.24-0.8	6
SQ2502	600	0.5 <sup>++</sup>	50	-75 to 60	50 (ac)	1	2.5-5	40
SQ2504	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	1.5-4	40
SQ2505	250	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	7-16	78
SQ2506	600	0.3 <sup>+</sup>	50	-75 to 60	50 (ac)	1	1-3	40
SQ2508	200	0.05	1	60	12 (dc)	1	0.065-0.275	1

\*This type has S-12 spectral response.

\*\*Dissipation ratings apply up to the maximum rated ambient temperature.

\*This type has a "demand rating" of 0.75 watt. This rating is a dissipation rating to which the cell may be exposed in outdoor applications. The rating may be used twice every 24 hours for a period of 20 minutes, each time, provided the interval between demand services is not less than four hours.

++This type has a demand rating of 0.8 watt.

## PHOTOJUNCTION CELLS—(Germanium p-n alloy; S-14 spectral response)

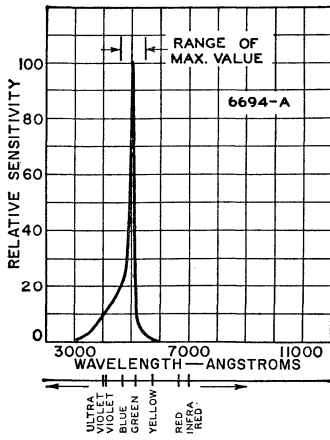
RCA TYPE	Maximum Ratings			Characteristics at 25°C			Maximum Dimensions	
	DC Volts Between Terminals	Power Dissipation (watt)	Ambient Temperature Range (°C)	DC Volts Between Terminals	Illumination Sensitivity (μa/fc)	Maximum Dark Current (μa)	Length (in.)	Diameter (in.)
4420	50	0.03	-40 to 50	45	0.7	35	1.10	0.350
7467	50	0.03	-40 to 50	45	0.7	35	0.875	0.350

## PHOTOVOLTAIC CELLS—(Silicon n-on-p type++)

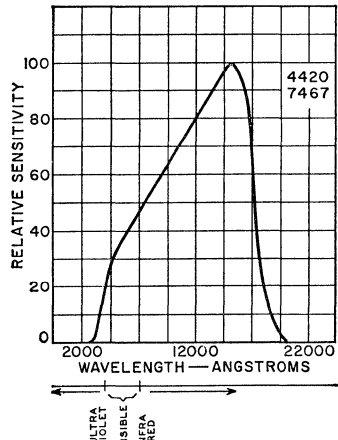
RCA TYPE	Characteristics at 27°C ± 1°C			Maximum Dimensions		Sensitive Area (Av.)		
	Minimum Current (ma)	Minimum Power Output (mw)	Minimum Efficiency (%)	Length (in.)	Width (in.)	Length (in.)	Width (in.)	Area (sq. in.)
SL2205	48	17.9	10	0.399	0.795	0.354	0.786	0.278
SL2206	101.5	37.8	10	0.791	0.791	0.746	0.786	0.586

++Wavelength of maximum response is 8600 ± 750 angstroms; approximate spectral range at the 20 per cent points is 4000 to 10600 angstroms.

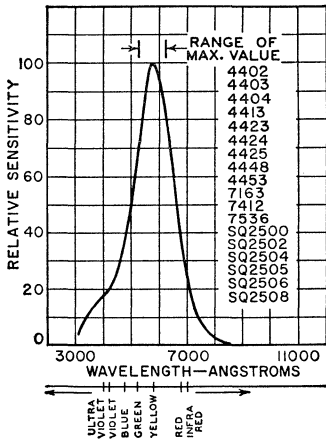
# SPECTRAL RESPONSE CURVES FOR RCA PHOTOCELLS



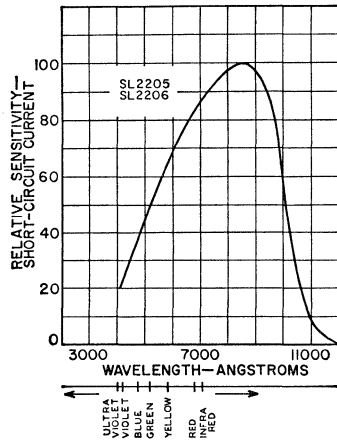
**S-12**



**S-14**



**S-15**



**PHOTOVOLTAIC**