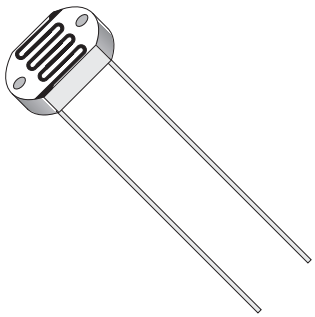
VAC54

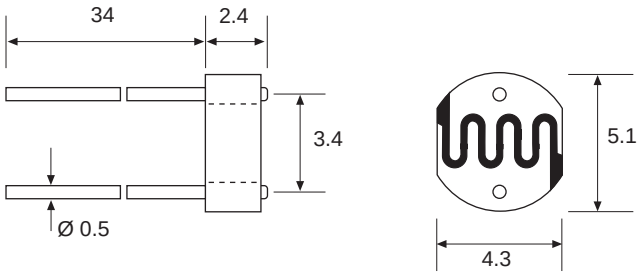
MINIATURE CADMIUM SULPHIDE PHOTOCONDUCTIVE CELL



LIGHT DEPENDENT RESISTOR

FEATURES

- *Miniature open frame package.*
- *Epoxy coated.*
- *Moisture resistant.*
- *Spectral response similar to the human eye.*
- *Applications include dusk - dawn lighting control.*



Dimensions in millimetres

SPECIFICATION AND PERFORMANCE

Model	Vmax (VDC)	Pmax (mW)	Ambient Temp (°C)	Spectral Peak (nm)	Light Resistance at 10 lux (kΩ)	Dark Resistance (MΩ)	Gamma Char. T^{100}_{10}	Response Time (ms)	
								Rise Time	Decay Time
VAC54	150	100	-30 ~ +80	590	50 ~ 140	20	0.7	20	30

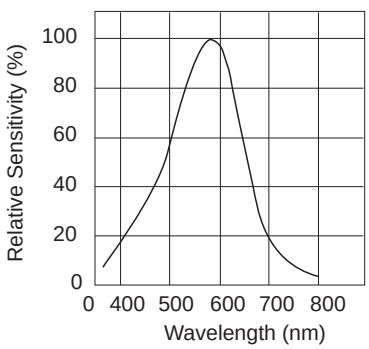
Measuring Conditions

1. Light Resistance:
   measured at 10 lux with standard light A (2854k color temperature) and 2h pre-illumination at 400-600 lux prior to testing.
2. Dark Resistance:
   measured 10 seconds after pulsed 10 lux.
3. Gamma Characteristic:
   between 10 lux and 100 lux and given by

   $$T = \frac{\log (R10/R100)}{\log (100/10)} - \log (R10/R100)$$

   R10, R100 cell resistance at 10 lux and 100 lux.
   The error of T is +0.1.
4. Pmax:
   Max. power dissipation at ambient temperature of 25°C.
5. Vmax:
   Max. voltage in darkness that may be applied to the cell continuously.

Spectral Response



Illuminance vs Light Resistance