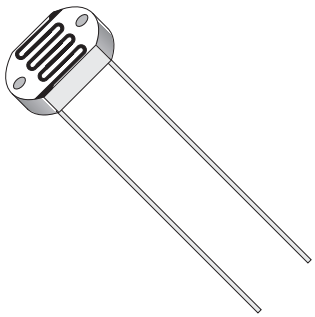
# VAC54

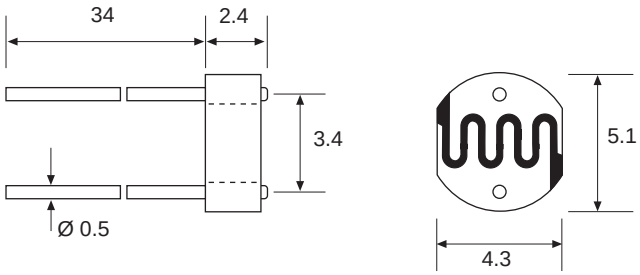
## MINIATURE CADMIUM SULPHIDE PHOTOCONDUCTIVE CELL



## 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. $T_{10}^{100}$ | Response Time (ms) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Rise Time | Decay Time |
| **VAC54** | 150 | 100 | -30 ~ +80 | 590 | 50 ~ 140 | 20 | 0.7 | 20 | 30 |

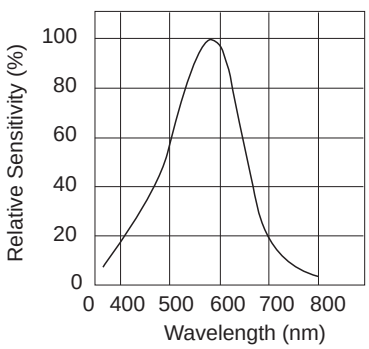
### Measuring Conditions

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

