PHOTO IC: AC-450

Spectral response close to human eye sensitivity

TENTATIVE

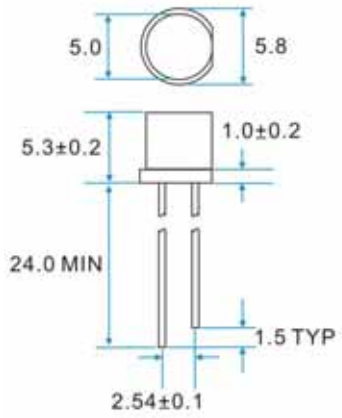
Features

- AC-450 is photo IC and can output the voltage which is relative to logarithm of input light.
- Spectral response close to human eye sensitivity can be obtained without using any visual-compensated filters.
- The shape resembles φ5.0 CdS Photoconductive Cells, and it can be easily replaced from such visible sensors.

Applications

- Camera
- Light Switching
- Light level measurement in various fields

Outline Dimensions



(unit: mm)

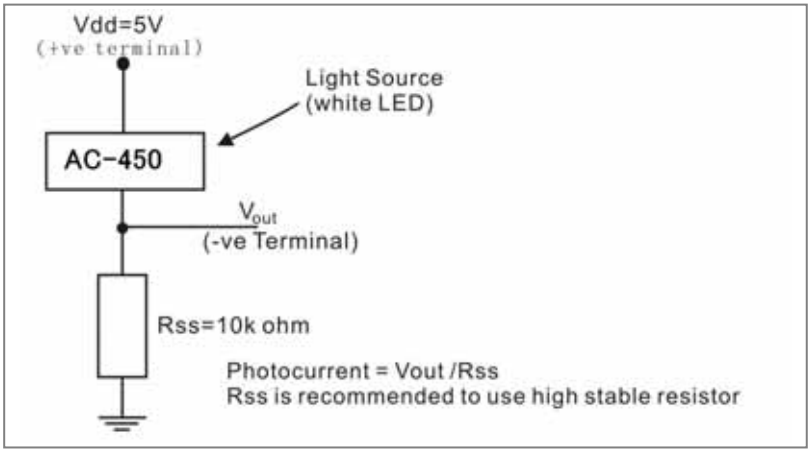
■ Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Value	Unit
Input Voltage	V_{DD}	-0.5 to 7.0	V
Output Voltage	V_{OUT}	≦ V_{DD}	V
Permissible Power Dissipation	P	70	mA
Operating Temperature	T_{OPR}	-40 ~ +80	℃
Storage Temperature	T_{STR}	-40 ~ +100	℃
Soldering Temperature	T_{SOL}	Max. 260	℃

■ Electrical Characteristics (Ta=25℃, V_{DD}=5V, R_{SS}=10kΩ)

Parameter		Symbol	Value	Unit	Condition
Peak sensitivity wavelength		λ_P	520	nm	
Light Current	L1	I_{SS}	10	μA	E_V = 10 *lx*
	L2		100		E_V = 100 *lx*
	L3		200		E_V = 200 *lx*
Dark Current		I_{DD}	4	nA	E_V = 0 *lx*
Switch Time	Rise time	tr	8.5	mS	V_{DD}=5V, R_{SS}=10kΩ
	Fall time	tf	8.5		

** Tolerances for light current will be about ±50%.*



The data is subject to change without notice.

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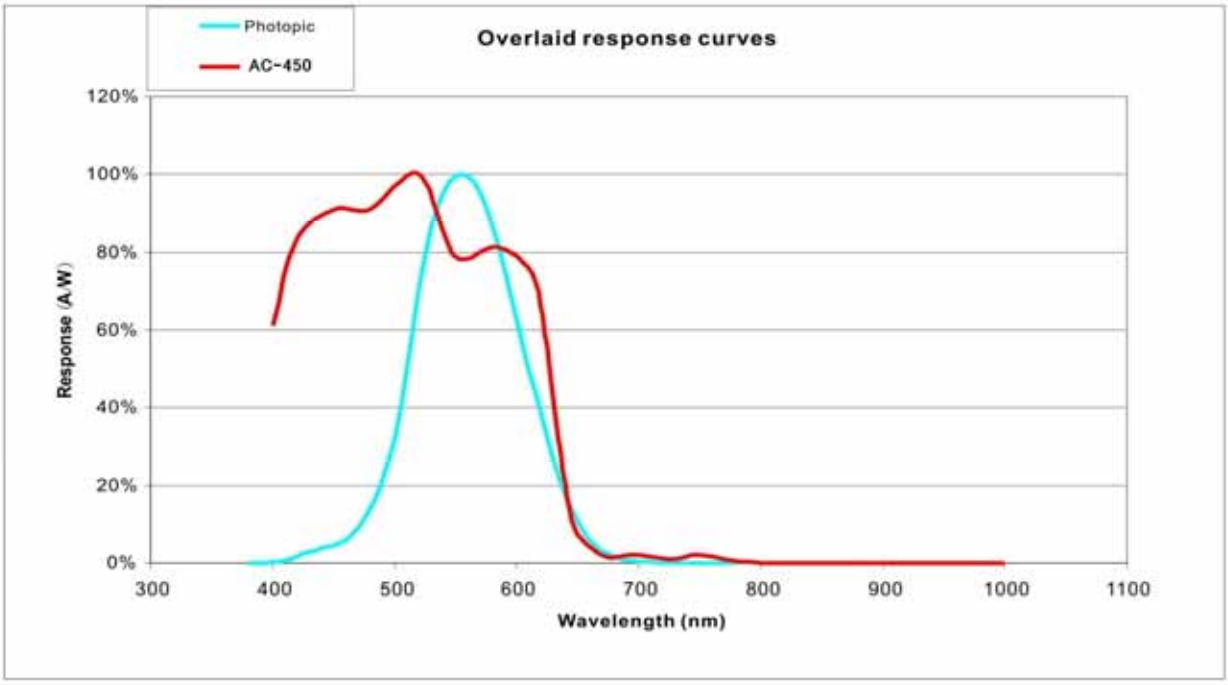

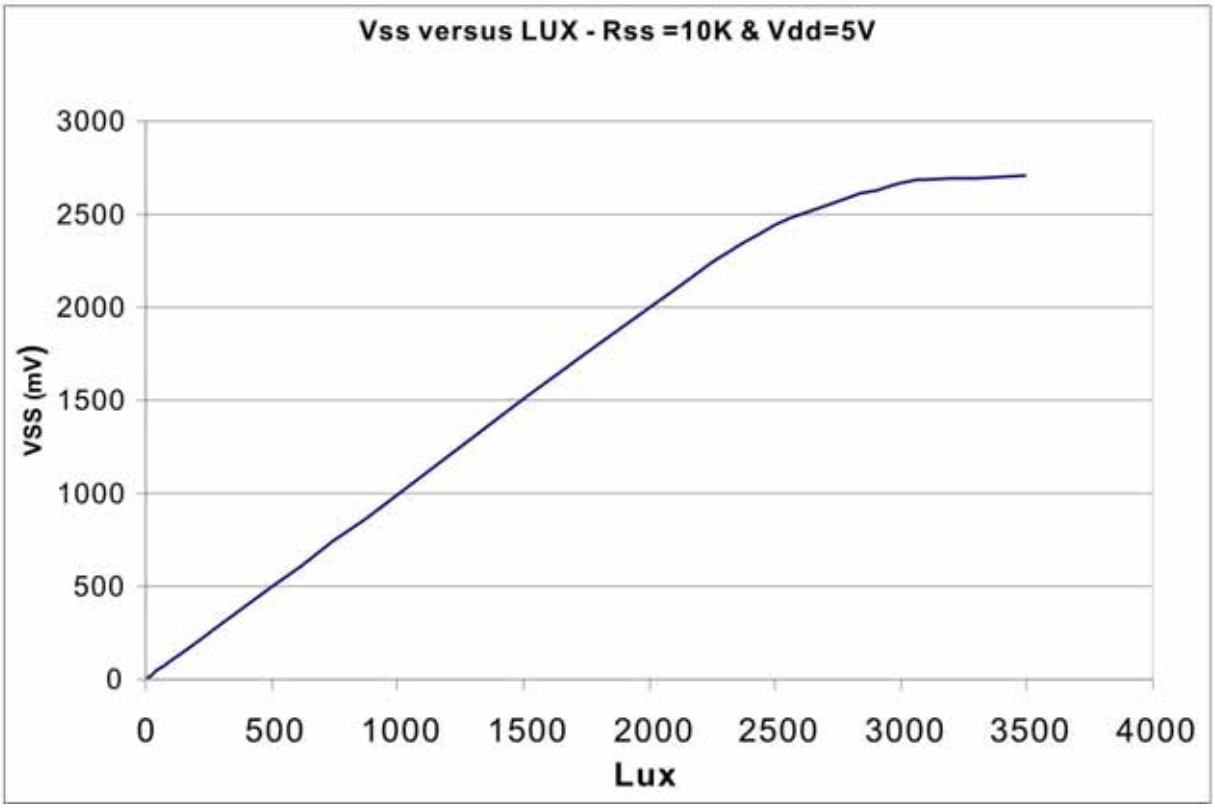

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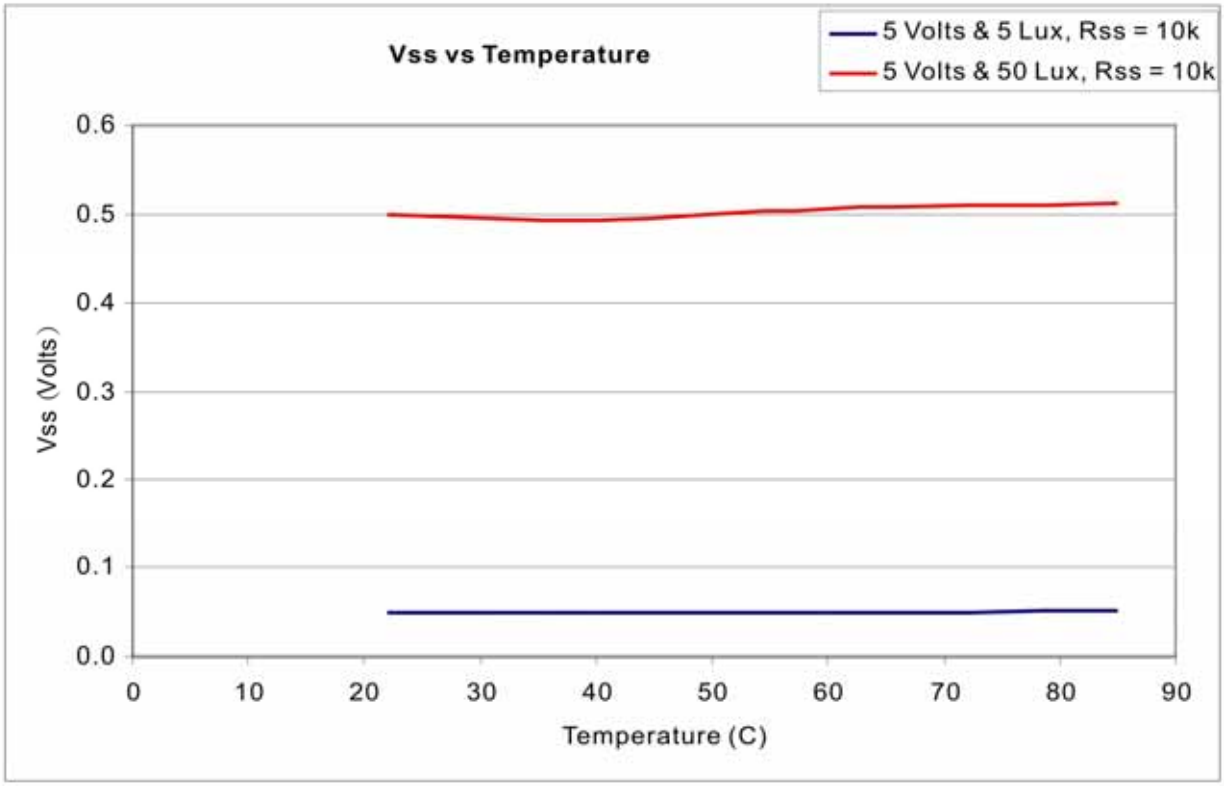

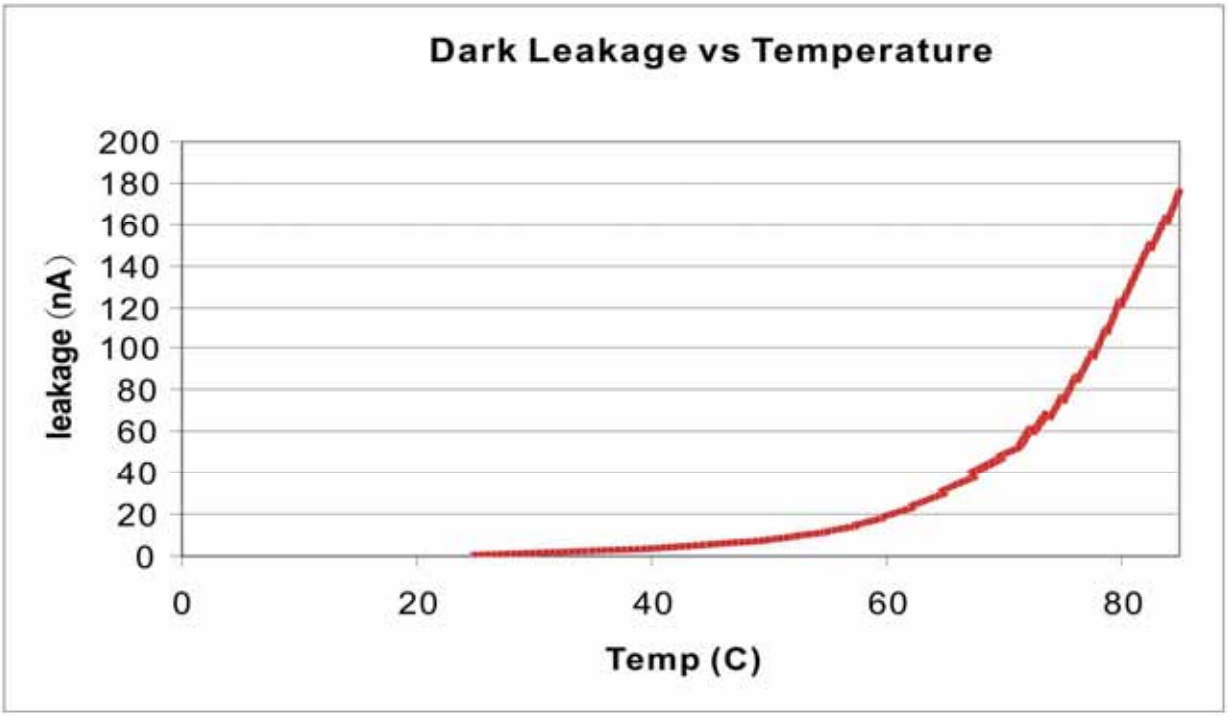

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