

KVS-1001

The KVS-1001 is the optical sensor with high sensitivity of the visible light. It is an amorphous silicon based device mounted on the glass substrate

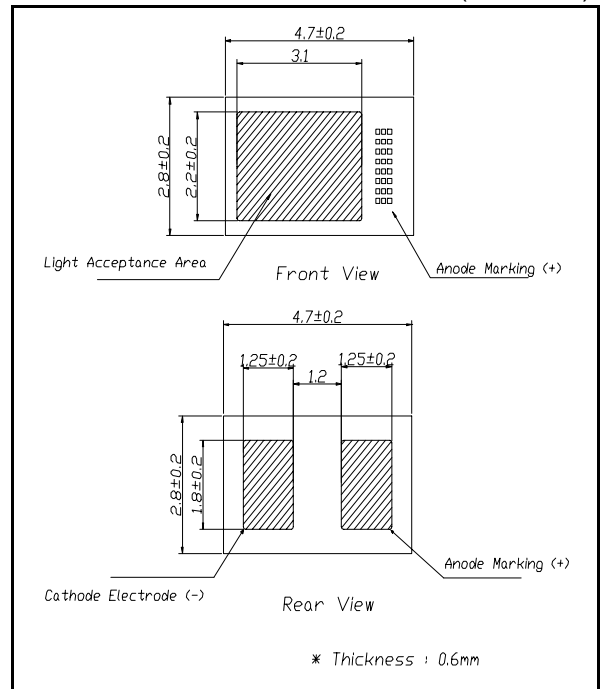
FEATURES

- High sensitivity in a visible area, but little sensitivity in others (UV and IR)
- Environment friendly product (not contain Cadmium)
- This sensor can be mounted on the surface with pb-free soldering

APPLICATIONS

- Brightness detection of CRT, LCD
- Beam position detection of Projection TV
- Camera AE Sensor (Replace for CdS cell)
- Control of the lighting in a Car, Room, etc

DIMENSIONS (Unit : mm)



ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Ratings	Unit
Reverse Voltage	V_R	5	V
Operating Temperature	Topr.	- 10 ~ + 60	°C
Storage Temperature	Tstg.	- 30 ~ + 80	°C
Soldering Temperature (see Note *1)	Tsol.	260 ± 5	°C

*1. When it is solded by a soldering iron.

ELECTRO-OPTICAL CHARACTERISTICS

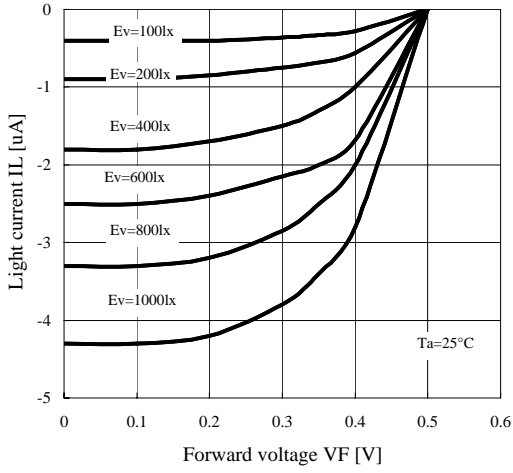
(Ta=25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Open circuit voltage	V_{OC}	$E_v = FL\ 100lx^{*2}$	0.35	0.40		V
Short circuit current	I_{SC}		0.35	0.39		uA
Dark current	I_d	$V_R = 1V$		0.5	5	nA
Spectral sensitivity	I	5 ~ 10%	350 ~ 750			nm
Peak wavelength	I_p			590		nm

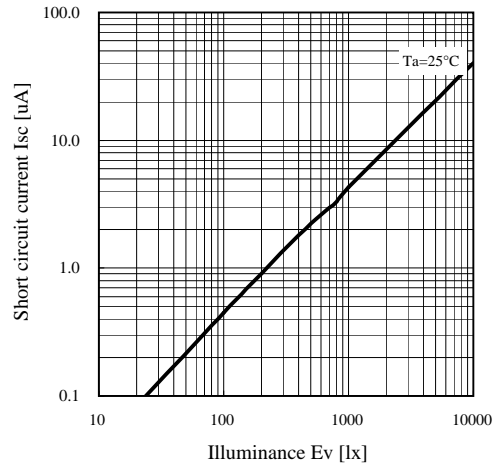
*2. Normal White Fluorescent Light

KVS-1001

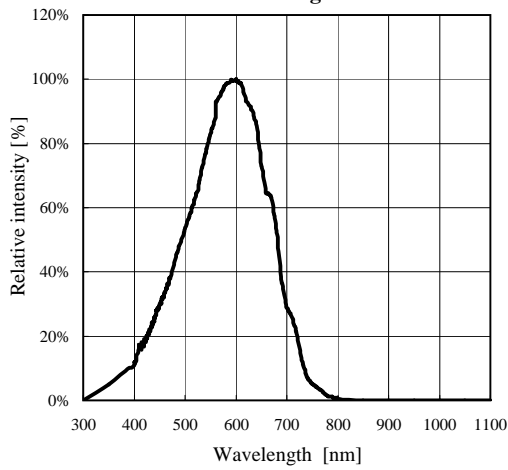
Light current Vs. Forward voltage



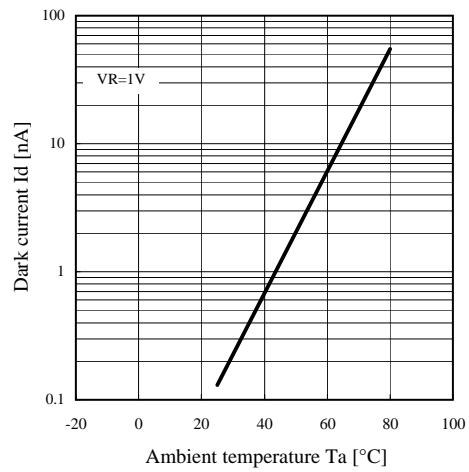
Short circuit current Vs. Illuminance



Relative intensity Vs. Wavelength



Dark current Vs. Ambient temperature



Short circuit current Vs. Ambient temperature

