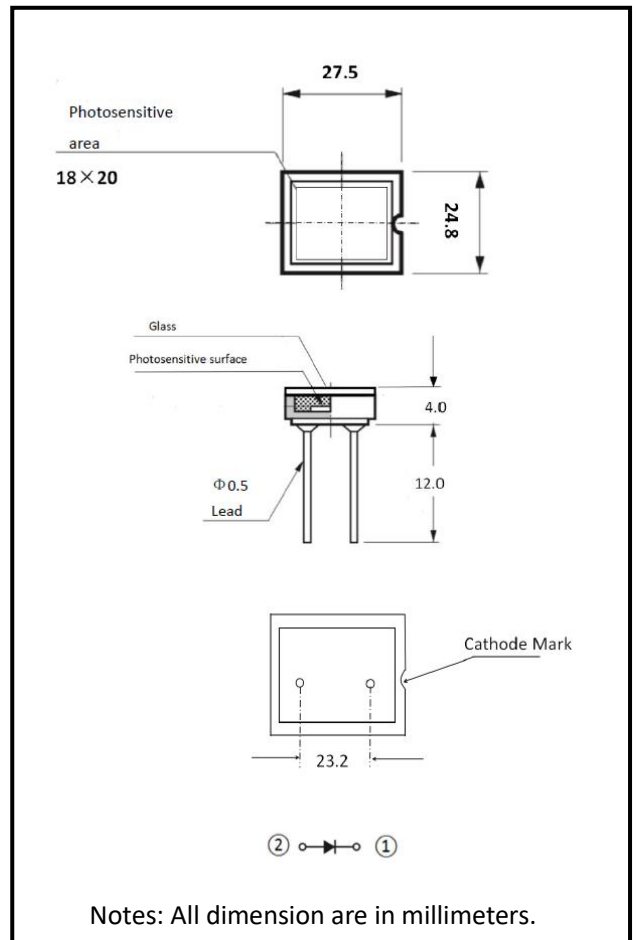


Human eye response photo diode

OSD360-EC



Description

The OSD360-EC is human eye response high-output, high-speed silicon photo diode which is mounted in BT board, it permits wide angular response.

Applications

*Color sensor *Laser detect * Medical equipment *Luminometer

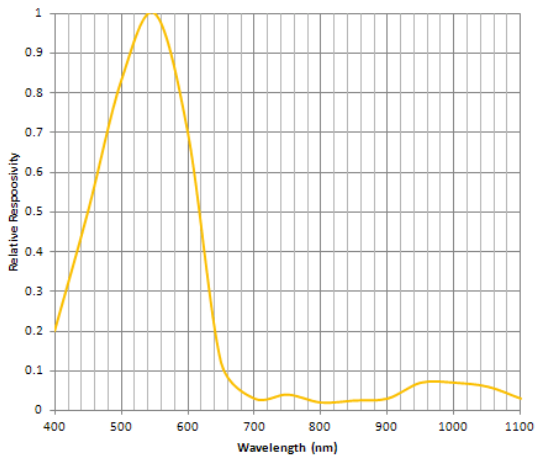
Absolute Maximum Ratings ($T_a=23^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	size	-	18*21			mm ²
Active area	A	-	17.30*20			mm ²
Dark current	I_D	$V_R=0V$		90		nA
		$V_R=10V$		5.39		
Rise time	t_R	$V_R=0V; \lambda =530nm; R_L=50\Omega$		2000		ns
Tempcoeffi-cient of I_D	T_{CID}			0.18		times/ $^\circ\text{C}$
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$ $E_v=0mW/cm^2$	33			V
Junction Capacitance	C_J	$V_R=0V$ $f=1MHz$ $E_e=0mW/cm^2$		6.7		nF
		$V_R=5V$ $f=1MHz$ $E_e=0mW/cm^2$		5.2		
Photo sensitivity	S_R	550nm		0.45		A/W
Spectral Application Range	λ_{range}		350		700	nm
Spectral Response-Peak	λ_p			550		nm
Shunt resistance	R_{sh}	$V_R=10mV$		0.10		$G\Omega$
Angular Resp 50% Resp Pt	$\theta^{1/2}$			± 60		Degrees

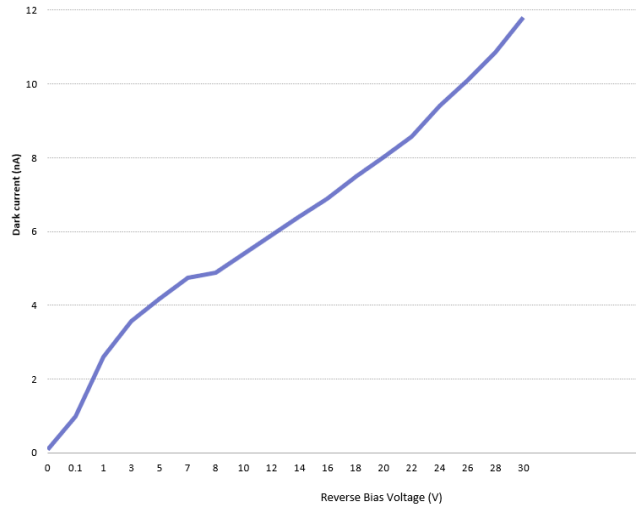


OSD360-EC

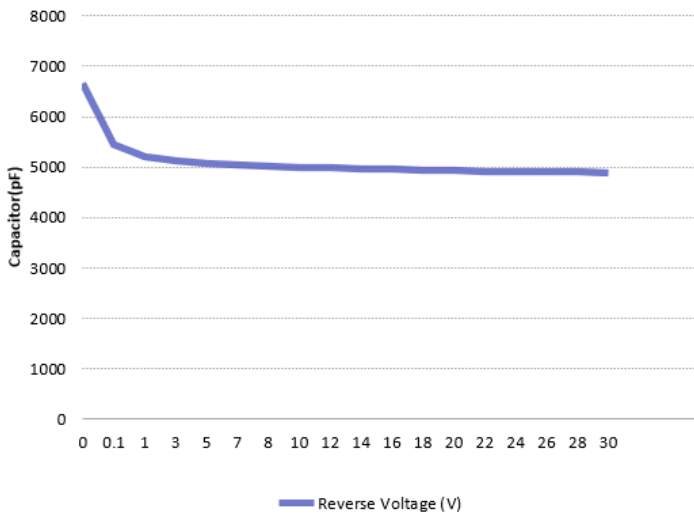
SPECTRAL RESPONSE (Ta=23°C)



DARK CURRENT VS. REVERSE VOLTAGE (Ta=23°C)



CAPACITANCE VS. REVERSE VOLTAGE (Ta=23°C)



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice.

OTRON ELECTRONIC TECHNOLOGY CO., LTD

TEL:+86-21-54971821

FAX:+86-21-54971823

EMAIL: otron.sensor@gmail.com

<http://www.e-otron.com>