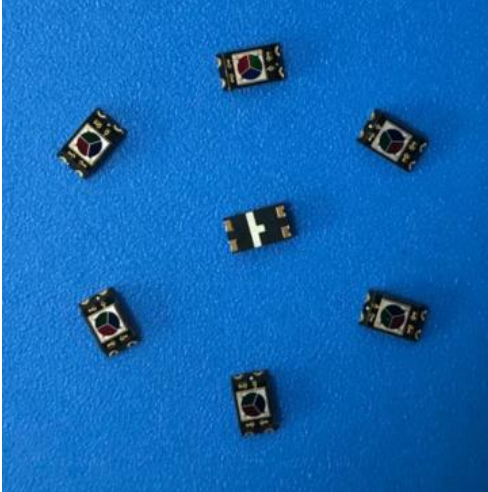


RGB COLOR SENSOR photodiode

OSD2-RGB-SMD

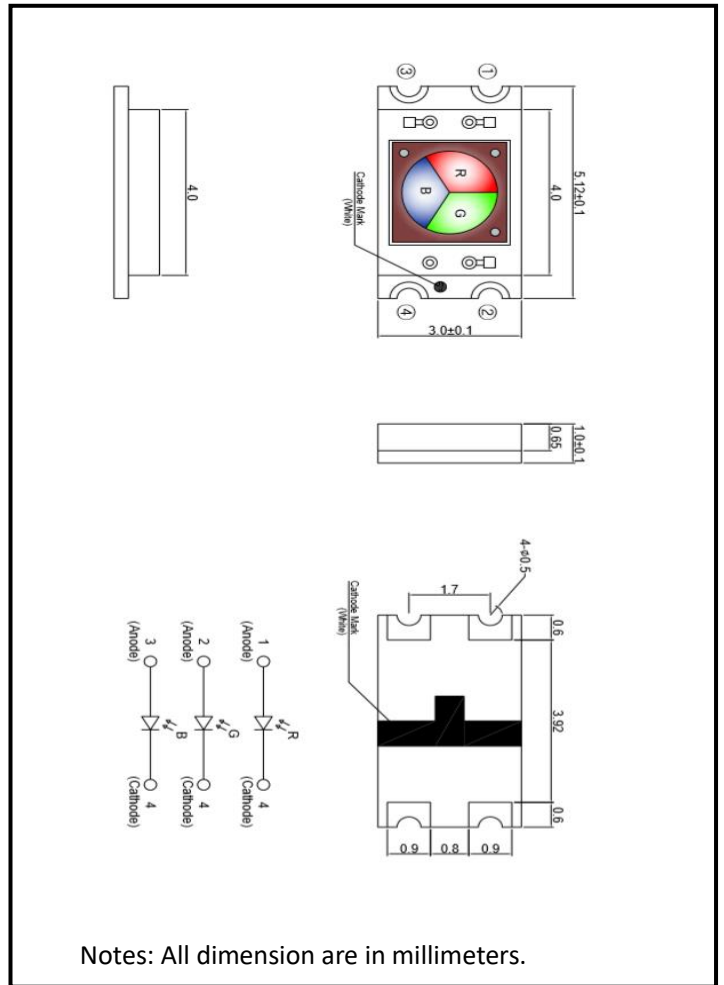


Description

The OSD2-RGB-SMD is RGB sensitive high-output, high-speed silicon photo diode which is mounted in PCB molding package.

Applications

*RGB sensor



Absolute Maximum Ratings (Ta=23 °C)

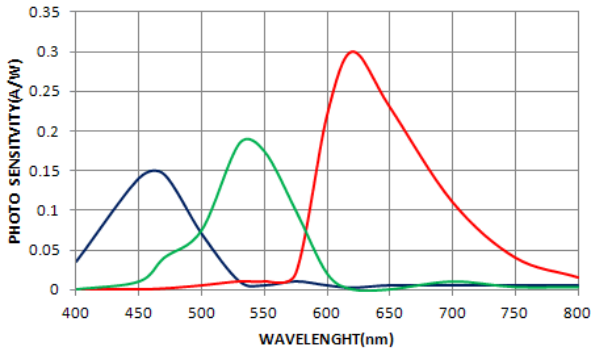


Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	size	-	2.28*2.28			mm ²
Active area	A	Diameter	∅2.00			mm
Dark current	I _d	V _R =10mV		10		pA
		V _R =10V		50		
Rise time	t _r	V _R =0V; R _L =50Ω		200		ns
Tempcoefficient of I _d	T _{CID}			0.18		times/°C
Reverse breakdown voltage	V _{(BR)R}	I _R =100uA E _v =0mw/cm ²	5			V
Junction Capacitance	C _J	V _R =0V f=1MHz E _e =0mW/cm ²		90		pF
		V _R =5V f=1MHz E _e =0mW/cm ²		32		
Photo sensitivity	S _R	460nm		0.15		A/W
		540nm		0.18		A/W
		620nm		0.30		A/W
Angular Resp 50% Resp Pt	θ ^{1/2}			±80		Degrees

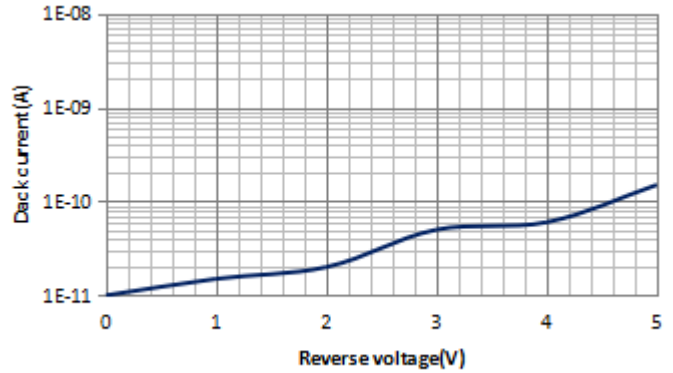


OSD2-RGB-SMD

SPECTRAL RESPONSE (Ta=23°C)

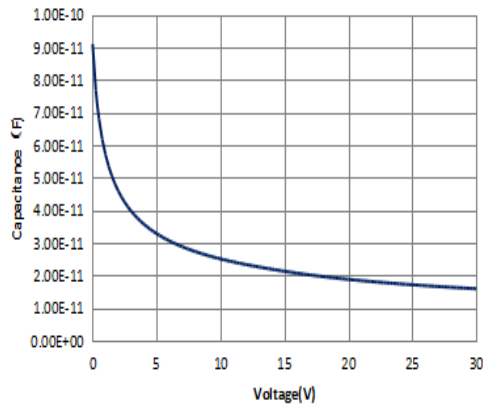
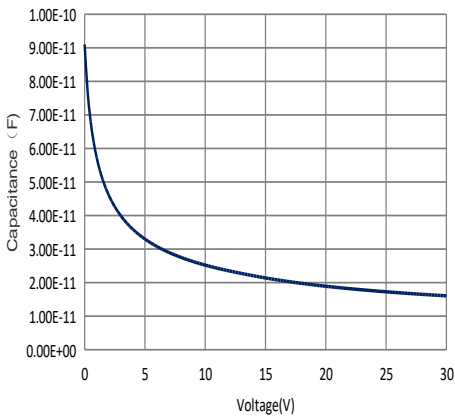


DARK CURRENT VS. REVERSE VOLTAGE (Ta=23°C)



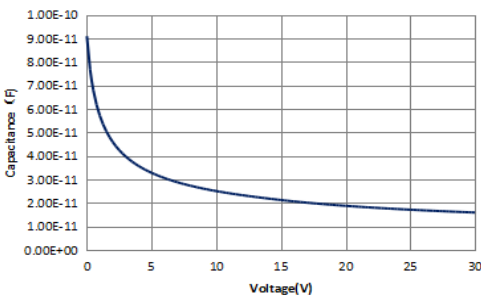
CAPACITANCE VS. REVERSE VOLTAGE (Ta=23°C)

R, G, B



OSD2-R

OSD2-G



OSD2-B

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.

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