

UV Enhanced Silicon PIN photodiode



Description

OSD1159 is a type of UV enhanced UV photodiode, it cover a Wide spectral range from UV to near Infrared light.

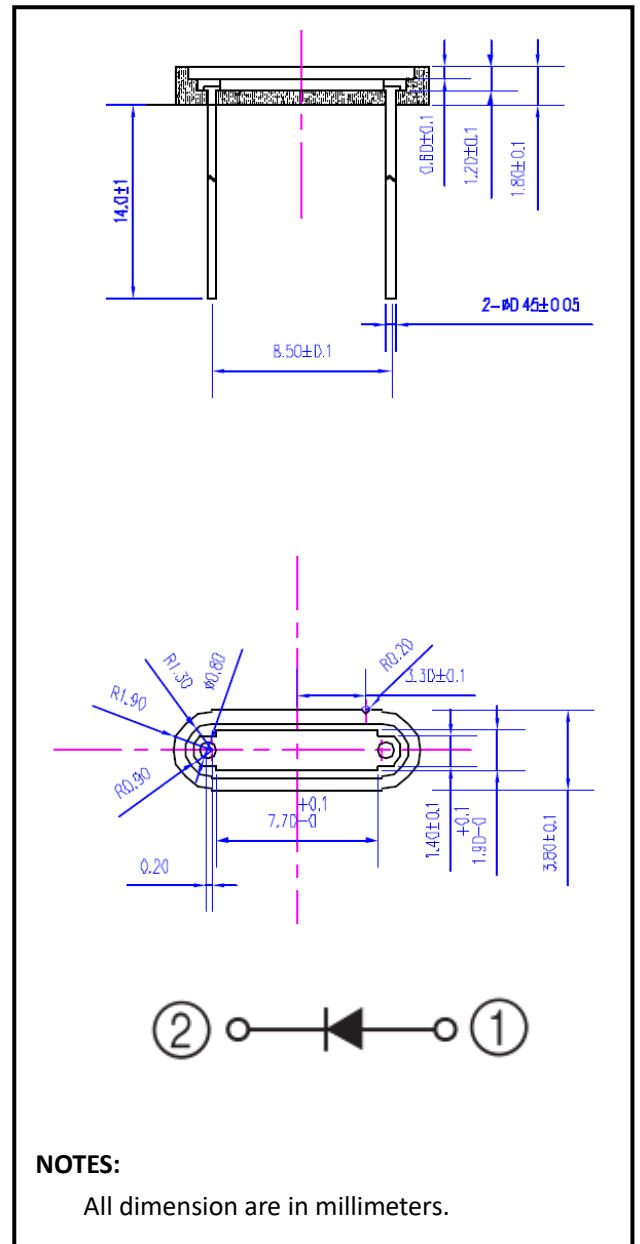
It's suitable for low light level detection in analysis .

Features

- * UV to NIR response
- * Low dark current
- * Custom devices available upon request

Applications

- * Multichannel spectrophotometers
- * Light spectrum analyzers



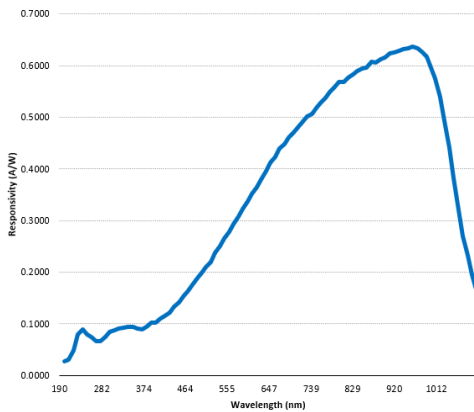
Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

Absolute Maximum Ratings (Ta=25 °C)

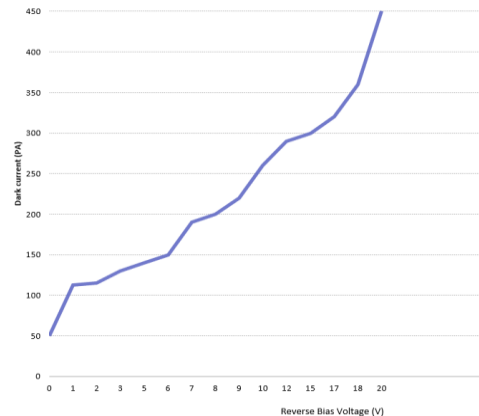


Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Active area			1.1*5.9			um
Chip size			1.5*6.3			um
Spectral range			190		1100	μA
Short circuit current	I _{SC}	Ev=100lx		5		uA
Photo sensitivity	S _R	940nm		0.60		A/W
		650nm	0.35	0.40		
Dark current	I _D	V _R =10mV		0.08		nA
		V _R =10V		0.24	2	
Rise time	t _R	V _R =10V;λ=850m;R _L =50Ω			100	ns
Tempcoeffi-cient of I _D	T _{CI_D}			0.18		times/°C
Reverse breakdown voltage	V _{(BR)R}	I _R =10μA Ev=0lx			30	V
Junction Capacitance	C _J	V _R =1V f=10kHz		169		pF
		V _R =10V f=10kHz		45		

■ Spectral response



■ Dark current VS.Ubias



■ Breakdown Voltage vs. Temperature

