UV / Visible Sensor

GVBL-S12SD

Genuine UV Technology

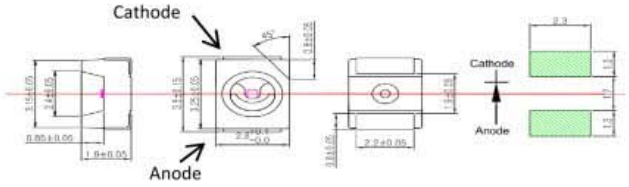
Features

SMD3528 with Si-encapsulant
Indium Gallium Nitride Based Material
PN-type Photodiode
Photovoltaic Mode Operation
High Responsivity & Low Dark Current

Applications

UV LED Monitoring (385, 405nm, etc.)
Blue LED Monitoring
UVA Lamp Monitoring
UV Curing

Outline Diagrams and Dimensions



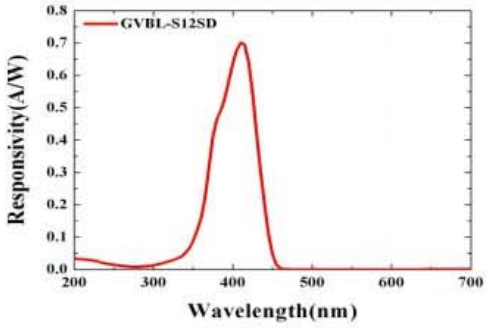
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		5	V	
Forward Current	$I_{f,max.}$		1	mA	
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

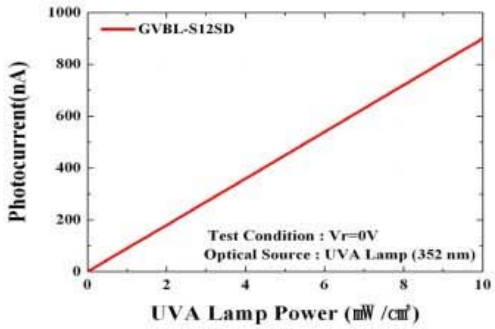
Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	Vr = 0.1 V
Photo Current	I_{ph}		90		nA	UVA (352nm), 1㎽/㎠
			790			405nm LED, 1㎽/㎠
Responsivity	R		0.68		A/W	λ = 405 ㎚, Vr = 0 V
Spectral Detection Range	λ	345		450	㎚	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

ESD can damage the device hence please avoid ESD.