

UV / Visible Sensor

GVBL-S12SD



Features

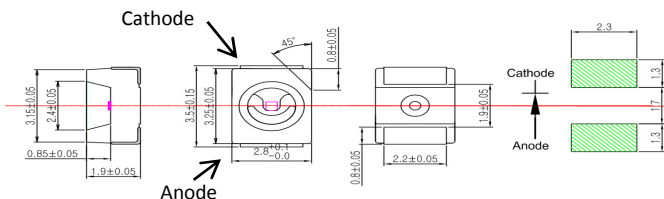
- SMD3528 with Si-encapsulant
- Indium Gallium Nitride Based Material
- PN-type Photodiode
- Photovoltaic Mode Operation
- High Responsivity & Low Dark Current



Applications

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

Outline Diagrams and Dimensions



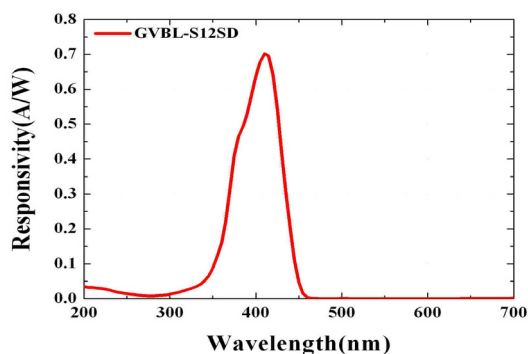
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T _{st}	-40	90	°C	
Operating Temperature	T _{op}	-30	85	°C	
Reverse Voltage	V _{r, max.}		5	V	
Forward Current	I _{f, max.}		1	mA	
Soldering Temperature	T _{sol}		260	°C	within 10 sec.

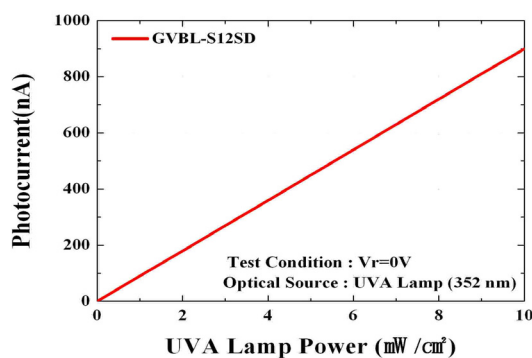
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I _d			1	nA	V _r = 0.1 V
Photo Current	I _{ph}		90		nA	UVA (352nm), 1mW/cm ²
			790			405nm LED, 1mW/cm ²
Responsivity	R		0.68		A/W	λ = 405 nm, V _r = 0 V
Spectral Detection Range	λ	345		450	nm	10% of R

Responsivity Curve



Photocurrent along UV Power



Caution

ESD can damage the device hence please avoid ESD.