

UV / Visible Sensor

GVGR-S11SD



Features

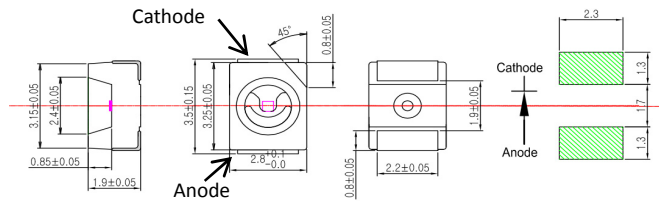
SMD3528 with Si-encapsulant
 Indium Gallium Nitride Based Material
 PN-type Photodiode
 Photovoltaic Mode Operation
 High Responsivity & Low Dark Current



Applications

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

Outline Diagrams and Dimensions



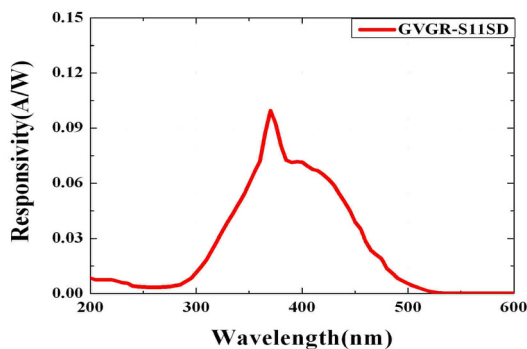
Absolute Maximum Ratings

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.

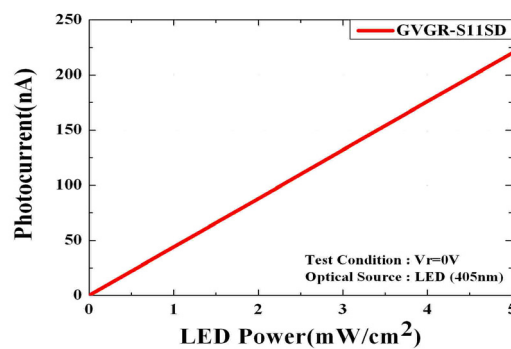
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	$V_r = 0.1 V$
Photo Current	I_{ph}		44		nA	LED (405nm), 1mW/cm ²
Responsivity	R		0.07		A/W	$\lambda = 405 nm, V_r = 0 V$
Spectral Detection Range	λ	295		490	nm	10% of R

Responsivity Curve



Photocurrent along LED Power



Caution

ESD can damage the device hence please avoid ESD.