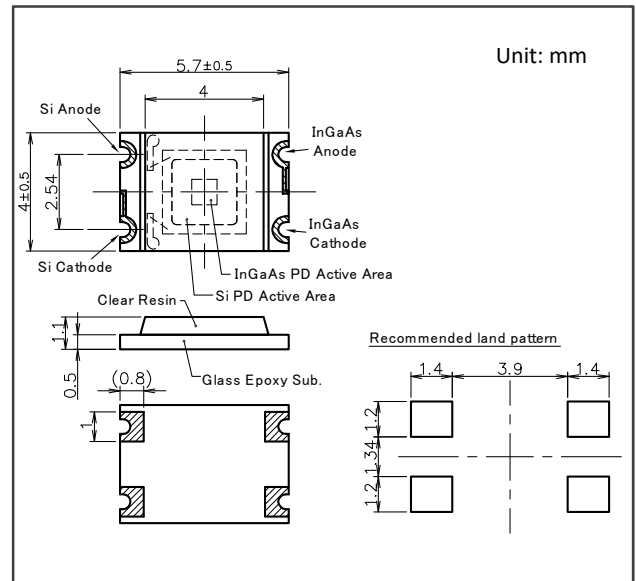


Features

- Integrated Si and InGaAs photodiode
- Same optical axes configuration
- Wide sensitive wavelength range
- Low dark current

Applications

- Sensing component materials (gas, solute, etc...)
- Laser diode and LED monitors
- Wide range spectroscopy



Absolute Maximum Ratings

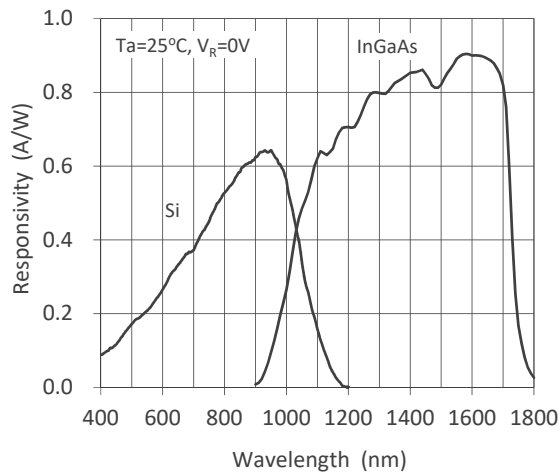
Parameter	Symbol	Detector	Value	Unit	Note
Reverse voltage	V_R	Si	10	V	
		InGaAs	10		
Forward current	I_F	Si	10	mA	
		InGaAs	10		
Reverse current	I_R	Si	1	mA	
		InGaAs	5		
Operating temperature	T_{opr}	-	-20 to +80	°C	Avoid dew condensation
Storage temperature	T_{stg}	-	-30 to +85	°C	Avoid dew condensation

Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

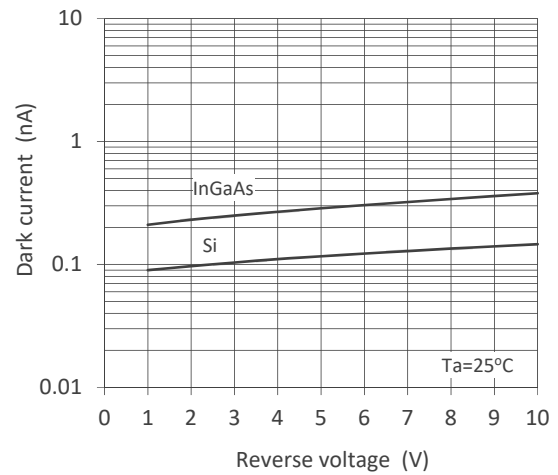
Parameter	Symbol	Detector	Min.	Typ.	Max.	Unit	Test Condition
Active area	A	Si	2.2 x 2.2			mm ²	
		InGaAs	0.86 x 0.86				
Responsivity	R	Si	0.5	0.6	-	A/W	$V_R=0V, \lambda=850nm$
		InGaAs	0.7	0.8	-		$V_R=0V, \lambda=950nm$
Dark current	I_D	Si	-	0.1	10	nA	$V_R=5V$
		InGaAs	-	1	10		
Terminal capacitance	C_t	Si	-	30	50	pF	$V_R=5V, f=1MHz$
		InGaAs	-	45	60		

Preliminary

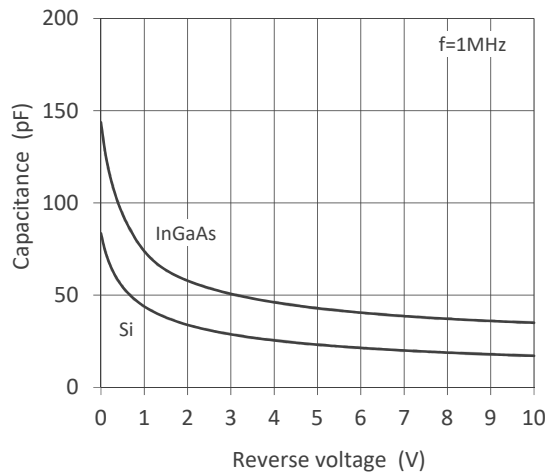
Spectral Responsivity



Dark Current - Reverse Voltage



Capacitance - Reverse Voltage



- Specifications, characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (2011/65/EU).