

Silicon PIN Photodetectors

Features:

- High sensitivity
- High reliability
- Standard TO package, fiber pigtailed co-axial packages or in connector style receptacle packages available

Applications:

- Optical measurement equipment
- Analytical equipment, etc.



Absolute Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNIT
Operating Temperature	T_{op}	-40~+85	°C
Storage Temperature	T_{stg}	-40 ~ +125	°C
Reverse Voltage	V_r	30	V
Lead Soldering Temperature (10 sec.)	T_{is}	260	°C

SPECIFICATIONS (T=25°C)	GCPD-2P05	GCPD-2P1	GCPD-2P2	Unit
Sensitive Area	Ø0.5	Ø1	Ø2	mm
Response Spectrum	400~1100	400~1100	400~1100	nm
Peak Wavelength	850~950	850~950	850~950	nm
Responsibility ($\lambda=0.9 \mu\text{m}$, $V_r=15\text{V}$)	≥ 0.5	≥ 0.5	≥ 0.5	$\mu\text{A}/\mu\text{W}$
Dark Current (Typical)	≤ 1	≤ 1.2	≤ 2	nA
Capacitance	≤ 1	≤ 1.2	≤ 1.8	PF
Response Time	≤ 1	≤ 1	≤ 3	ns
Operating Voltage	-15	-15	-15	V