

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



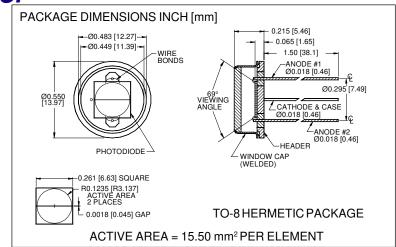




PHOTONIC DETECTORS INC.

Silicon Photodiode, Blue Enhanced Photoconductive **Bi-cell Type PDB-C202**





FEATURES

- High speed
- Low capacitance
- Blue enhanced
- Low dark current

DESCRIPTION

The PDB-C202 is a silicon, pin planar diffused, blue enhanced bi-cell photodiode. Ideal for high speed photoconductive applications. Packaged in a hermetic TO-8 metal can with a flat window.

APPLICATIONS

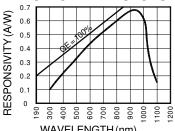
- Optical alignment
- Position sensing
- Edge sensing
- Instrumentation

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

| SYMBOL | PARAMETER | MIN | MAX | UNITS | |
|------------------|-----------------------------|-----|------|-------|--|
| V _{BR} | Reverse Voltage | | 100 | V | |
| T _{STG} | Storage Temperature | -55 | +150 | ∘C | |
| То | Operating Temperature Range | -40 | +125 | ∘C | |
| Ts | Soldering Temperature* | | +240 | ∘C | |
| IL | Light Current | | 0.5 | mA | |

^{*1/16} inch from case for 3 secs max

SPECTRAL RESPONSE



WAVELENGTH (nm)

ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|-----------------|----------------------------|---------------------------------|-----|-----------------------|------|---------|
| Isc | Short Circuit Current | H = 100 fc, 2850 K | 200 | 250 | | μ A |
| ΙD | Dark Current | $H = 0, V_R = 10 V$ | | 5 | 10 | nA |
| Rsн | Shunt Resistance | H = 0, V _R = 10 mV | 75 | 100 | | MΩ |
| TC Rsh | Rsн Temp. Coefficient | $H = 0$, $V_R = 10 \text{ mV}$ | | -8 | | %/°C |
| Сı | Junction Capacitance | $H = 0, V_R = 10 V$ | | 75 | | pF |
| λrange | Spectral Application Range | Spot Scan | 350 | | 1100 | nm |
| λр | Spectral Response - Peak | Spot Scan | | 950 | | nm |
| V _{BR} | Breakdown Voltage | I = 10 μA | 50 | 100 | | V |
| NEP | Noise Equivalent Power | V _R = 10 V @ Peak | | 1.5x10 ⁻¹⁴ | | W/ √Hz |
| tr | Response Time | RL = 1 KΩ V _R = 10 V | | 10 | 30 | nS |