

青紫対応高速光ダイオード PDZ701NB

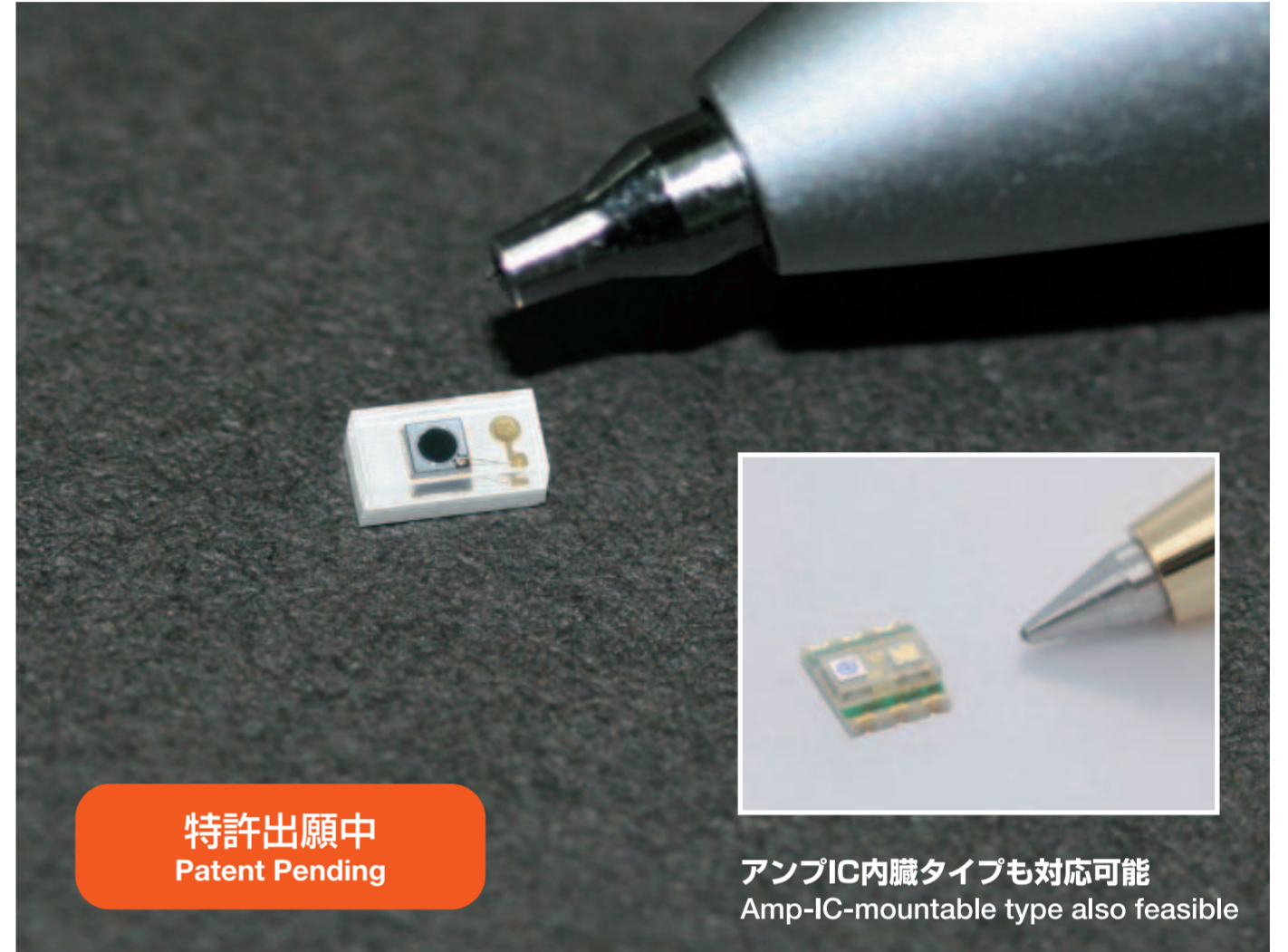
High-speed optical diode for handling blue-violet-wavelength light

新製品
NEW PRODUCT

特長 Features

使用Chip : N基板タイプ Chip used: n-type substrate

- 受光部サイズ : $\phi 600 \mu\text{m}$
Receiver-part size: $\phi 600 \mu\text{m}$
- 高感度 : 0.28A/W @ $\lambda\text{P} = 405\text{nm}$
High sensitivity: 0.28A/W @ $\lambda\text{P} = 405\text{nm}$
- 高速応答 : $\phi 600 \mu\text{m}$ 400MHz @ $\text{VR} = 2\text{V}$
High-speed response: $\phi 600 \mu\text{m}$ 400MHz @ $\text{VR} = 2\text{V}$
- 小型表面実装パッケージ : $2.8(\text{L}) \times 1.4(\text{W}) \times 1.1(\text{H})\text{mm}$
Compact-top-face mounting package:
 $2.8(\text{L}) \times 1.4(\text{W}) \times 1.1(\text{H})\text{mm}$
- 鉛フリー半田リフロー実装対応
Lead-free-solder reflow-mounting compatible



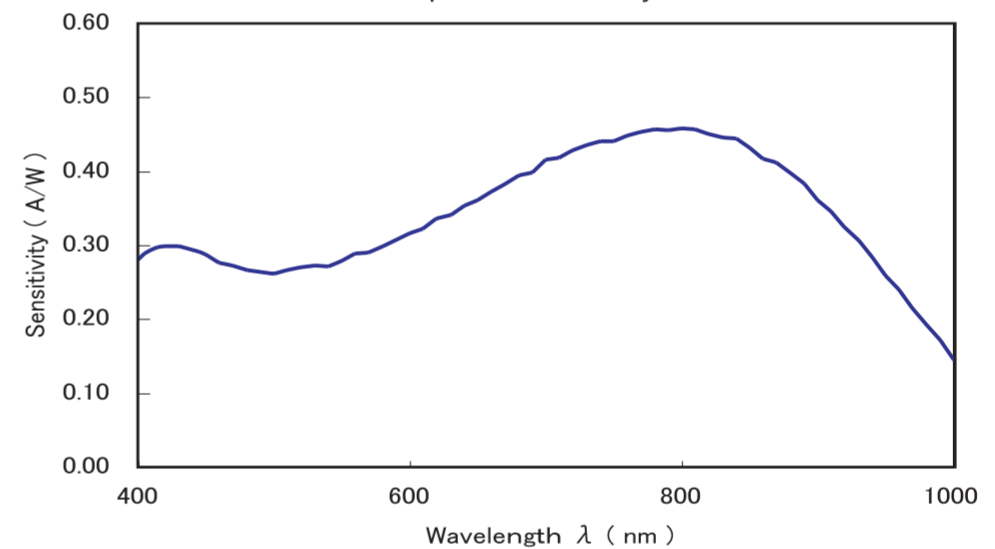
独自技術 Unique Technology

- 受光部に不純物をドーピングすることなく高感度と高速応答を同時に実現
Without having to dope the receiver part with impurities, it is possible to attain high sensitivity and high-speed response simultaneously.
- 受光部に不純物をドーピングしていないため、ブルーレーザー光に対して高い安定性
As a result of the absence of doping the receiver with impurities, stability in response to blue laser light is high.
- P基板もN基板同様の技術で対応可能
P-type substrate is feasible with the same technology as for the n-type substrate.
- フロント・モニターなど高速応答と高感度を同時に必要とする青紫光用光センサや光通信に最適
Suitable for optical sensors using blue-violet-light (which need high sensitivity and high-speed response simultaneously) and optical communications (e.g., for front desks and monitors)

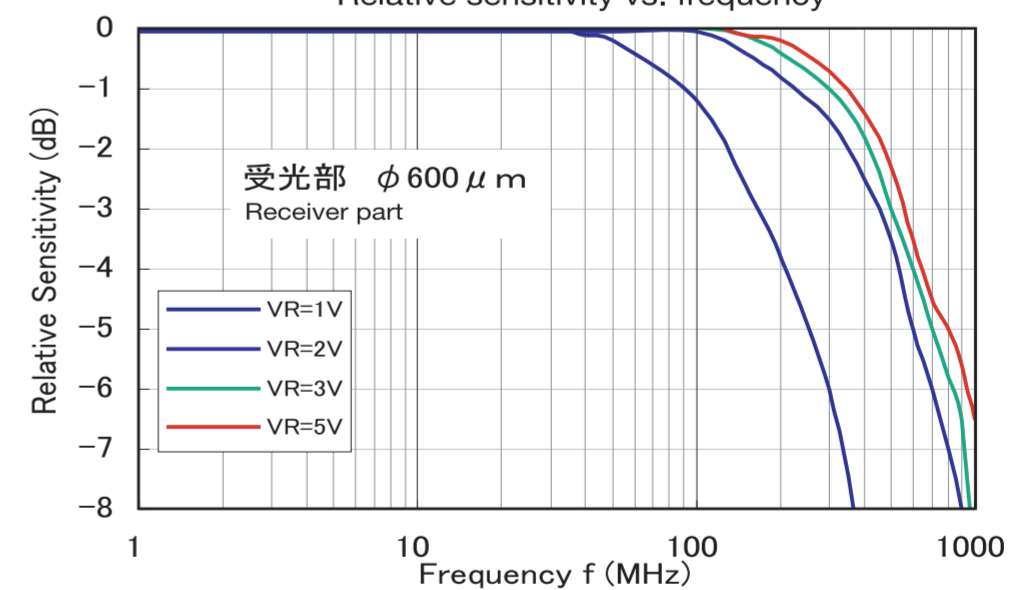
用途 Applications

- 青紫LEDモニタ
Blue-violet LED monitors
- 録再型DVD±R/RW/-RAM等のレーザーモニタ
Laser monitors of recording-type DVD±R/RW/-RAM
- 青色レーザー光通信用PD
Blue-violet laser optical-communication-use PD

分光感度特性
Spectral sensitivity



相対出力-周波数特性 (Ta=25°C)
Relative sensitivity vs. frequency



~開発中: Under development~

