

## Four-quadrant PIN module series



The device is a single four-quadrant or double four-quadrant silicon PIN photodiode module with a built-in preamplifier circuit, which can amplify the weak current signal and convert it into a voltage signal output, realizing the conversion process of "optical-electrical-signal amplification".

### FEATURES

Quick response

### APPLICATION

Laser guidance

#### Photoelectric characteristics (@Ta=22±3°C)

Model		GD4316Y	GD4319Y
Package form		TO-25	TO-25
Photosensitive surface size (mm)		10	10
Working voltage (V)		±12±0.5	±12±0.5
RMS noise voltage (mV)		2	2
Responsivity (kV/W)	$\lambda=1060\text{nm}, P_w=20\text{nS}$ $\Phi=100\mu\text{W}$	15	15
Inhomogeneity of response between quadrants (%)		6	8
Crosstalk between quadrants (%)		3	5
Dynamic range (dB)	$\lambda = 1064\text{nm}$ $P_w=20\text{ns}$	100	70 (inner quadrant) 57 (outer four quadrants)
Remark		Single quadrant	Double quadrant