

1064nm APD single tube series

SKU :GD5210Y-3-500 / GD5210Y-3-800 / GD5211Y

OVERVIEW

The device is a silicon avalanche photodiode with a spectral response range from visible to near infrared.

Peak response wavelength 905nm

FEATURES

Ortho-illuminated planar chip structure

High response frequency

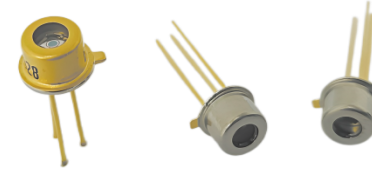
High gain

APPLICATION

Laser distance measurement

LIDAR

Laser Warning



OPTICAL CHARACTERISTICS (@Ta=22±3°C)

Model		GD5210Y-3-500	GD5210Y-3-800	GD5211Y
Package type		TO-46	TO-46	TO-52
Diameter of photosensitive surface(mm)		0.5	0.8	0.8
Spectral response range(nm)		400~1100	400~1100	400~1100
Peak response wavelength(nm)		980	980	980
Responsiveness	$\lambda=905\text{nm}$ $\Phi=1\mu\text{W}$ M=100	58	58	58
	$\lambda=1064\text{nm}$ $\Phi=1\mu\text{W}$ M=100	36	36	36
Dark current M=100(nA)	Typical	2	4	10
	Maximum	20	20	20
Response time $\lambda=800\text{nm}$ R1=50Ω(ns)		2	3	3.5
Operating voltage temperature coefficient T=-40°C~85°C(V/°C)		2.2	2.2	2.2
Total Capacitance M=100 f=1MHz(pF)		1.0	1.5	3.5
Breakdown voltage IR=10μA(V)	Min	220	220	350
	Max	580	580	500