

◆ **Introduction:**

S-15ACPD25-G is a front-side illuminated InGaAs PIN chip with a planar structure. This product has high responsivity, low dark current, and excellent reliability. It is ideally suited for low cost, high-speed data communication designs.

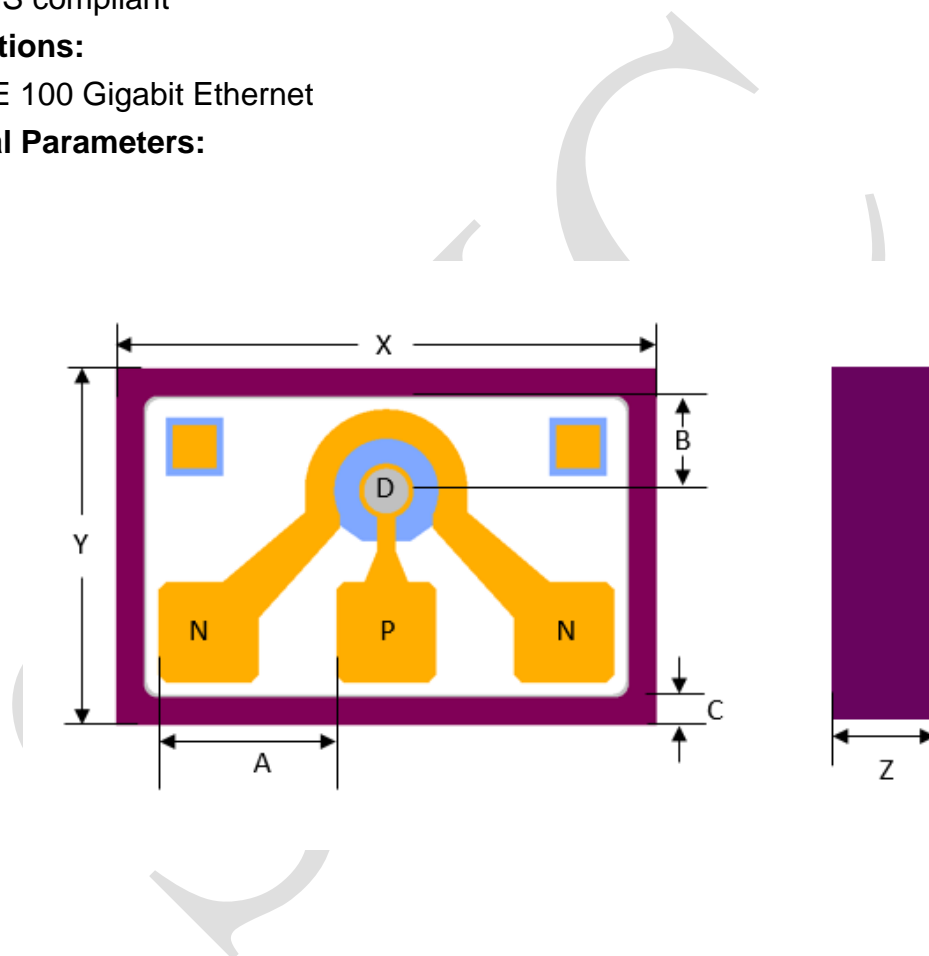
◆ **Key Features:**

- Optical aperture: 32μm
- Top-sided coplanar GSG contact pads
- Operating temperature range:-40 to +85°C
- 100% testing and inspection
- RoHS compliant

◆ **Applications:**

- IEEE 100 Gigabit Ethernet

◆ **Physical Parameters:**



Symbol	Die Dimension					Aperture	Pad	
	X	Y	Z	A	B		P	N
Min	355	225	135	115	60		65*65	65*65
Typ	380	250	150	125	65	Φ32	70*70	70*70
Max	405	275	165	135	70		75*75	75*75
Unit	μm	μm	μm	μm	μm	μm	μm*μm	μm*μm

◆ Absolute Maximum Rating:

Parameter	Symbol	Rating		Unit
		Min	Max	
Operation Voltage	V <sub>OP</sub>		5	V
Operating Temperature	T <sub>OP</sub>	-40	85	°C
Storage Temperature	T <sub>C</sub>	-45	125	°C

◆ Specifications (T=25°C) :

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Wavelength Range	$\lambda$		1210	1310/1550	1650	nm
Dark Current	I <sub>D</sub>	V <sub>R</sub> =3V			10	nA
Responsivity	R <sub>e</sub>	V <sub>R</sub> =3V $\lambda$ =1310nm	0.7	0.75		A/W
Capacitance	C	V <sub>R</sub> =3V			0.25	pF
-3dB Bandwidth	BW	V <sub>R</sub> =3V $\lambda$ =1310nm	20			GHz