

◆ **Introduction:**

S-12ACPD08-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 various LD monitoring application.

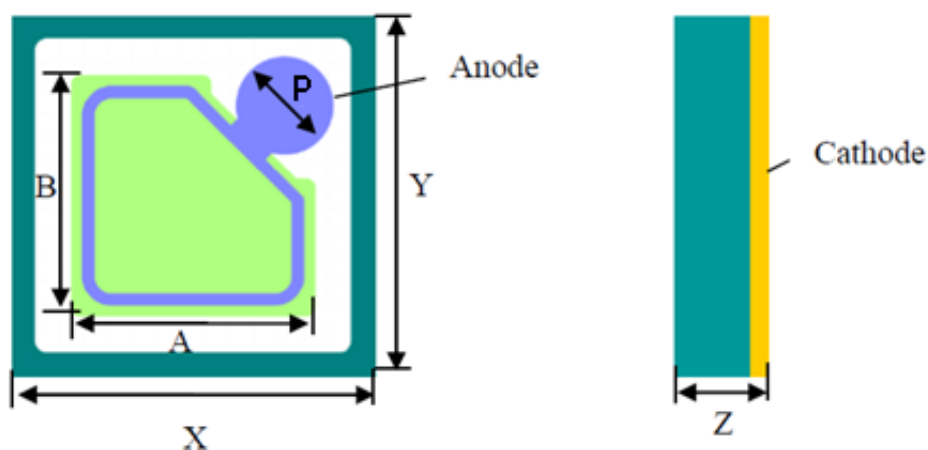
◆ **Key Features:**

- Optical aperture: 200μm
- Operating temperature range:-40 to +85°C
- 100% testing and inspection
- RoHS compliant

◆ **Applications:**

- Back facet laser power monitoring

◆ **Physical Parameters:**



Symbol	Die Dimension			Aperture		Pad
	X	Y	Z	A	B	P
Min	275	275	135	195	195	Φ75
Typ	300	300	150	200	200	Φ80
Max	325	325	165	205	205	Φ85
Unit	μm	μm	μm	μm	μm	μm

◆ **Absolute Maximum Rating:**

Parameter	Symbol	Rating		Unit
		Min	Max	
Operation Voltage	$V_{OP}$		20	V
Operating Temperature	$T_{OP}$	-40	85	°C
Storage Temperature	$T_C$	-45	125	°C

◆ **Specifications (T=25°C) :**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
Wavelength Range			1210	1310/1550	1650	nm
Dark Current	$I_D$	$V_R=5V$		1	5	nA
Capacitance	$C$	$V_R=5V$		2.5	5.0	pF
Responsivity	$R_e$	$V_R=5V$ $\lambda=1550nm$	0.90	0.95		A/W
-3dB Bandwidth	$BW$	$V_R=5V$ $\lambda=1550nm$	0.8			GHz