

◆ **Introduction:**

S-16ACPD15-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.

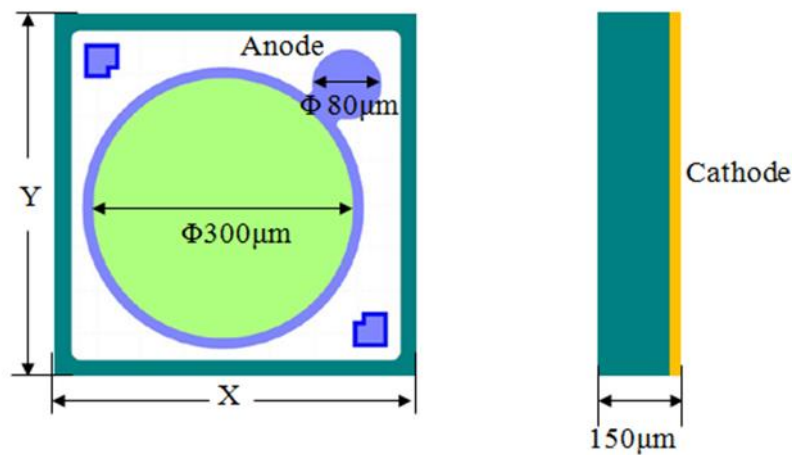
◆ **Key Features:**

- Optical aperture: 300μm
- 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 | P |
| Min | 395 | 395 | 135 | Φ295 | Φ75 |
| Typ | 420 | 420 | 150 | Φ300 | Φ80 |
| Max | 445 | 445 | 165 | Φ305 | Φ85 |
| Unit | μm | μm | μm | μm | μm |

◆ Absolute Maximum Rating:

| Parameter | Symbol | Rating | | Unit |
|-----------------------|----------|--------|-----|------|
| | | Min | Max | |
| Operation Voltage | V_{OP} | | 20 | V |
| Forward Current | I_F | | 10 | mA |
| Reverse Current | I_R | | 5 | mA |
| Operating Temperature | T_{OP} | -40 | 85 | °C |
| Storage Temperature | T_S | -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 | $V_R=5V$ | | 4.5 | 6.0 | pF |
| Responsivity | R_e | $V_R=5V$ $\lambda=1550nm$ | 0.90 | 0.95 | | A/W |