

Si Photo Diode Chip--ORT2060PD

1. Scope:

- The specification applies to PIN silicon photo-diode chips.
- Type: ORT2060PD

2. Structure:

- PIN planar type.
- Top (Anode) Side: aluminum(Al) alloy.
- Back (Cathode) Side: silver(Ag) alloy.

3. Size: (60mil×60mil)

- Chip size : $(1520\mu\text{m} \times 1520\mu\text{m}) \pm 40\mu\text{m}$ (include scribe line)
- Chip thickness : $280\mu\text{m} \pm 20\mu\text{m}$
- Active area : $(1350\mu\text{m} \times 1350\mu\text{m}) \pm 15\mu\text{m}$
- Pad size : $(250\mu\text{m} \times 250\mu\text{m}) \pm 10\mu\text{m}$
- Pattern drawing: per fig. 1

4. Electro-Optical Characteristics:

(Ta=+25℃)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F=10\text{mA}$, $H=0$	0.5		1.3	V
Reverse Breakdown voltage	V_{BR}	$I_R=100\mu\text{A}$, $H=0$	35			V
Reverse Dark Current	I_D	$V_R=10\text{V}$, $H=0$			10	nA
Light Current	I_L	$V_R=5\text{V}$, Has $1\text{mw}/\text{cm}^2$, @ 940nm		80		μA
Peak Sensing wavelength	λ_P			940		nm
Turn-On/Turn-off	t_{on}/t_{off}	$V_R=5\text{V}$, $R_L=50\Omega$, $\lambda=50\text{nm}$		55/55		ns

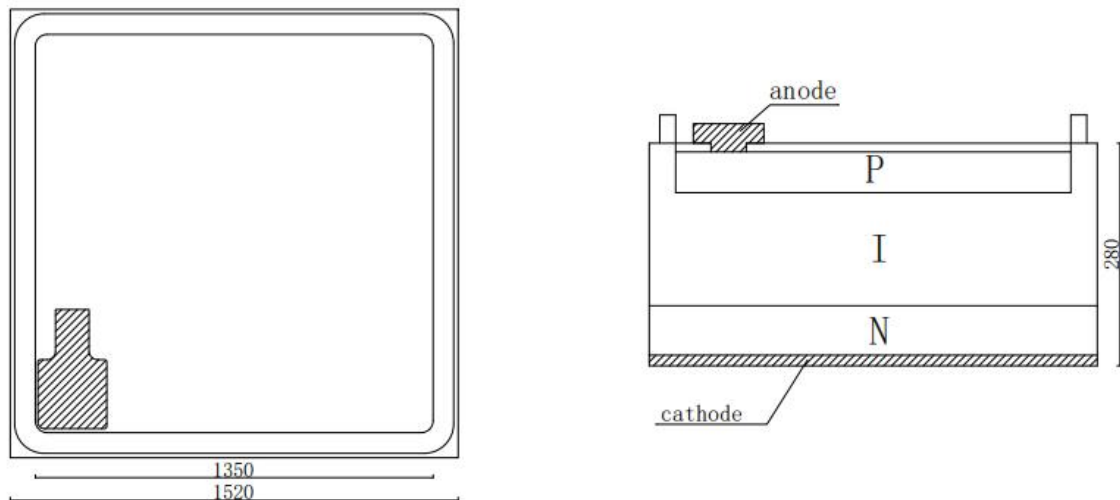


fig.1

5. Spectral Response

