

Si Photo-diode Chip—TK0P62PDN

1. Scope

- The specification applies to PIN silicon photo-diode chips.
- Type : TK0P62PDN.

2. Structure

- PIN planar type.
- Electrode anode : Aluminum.
cathode : Aluminum.

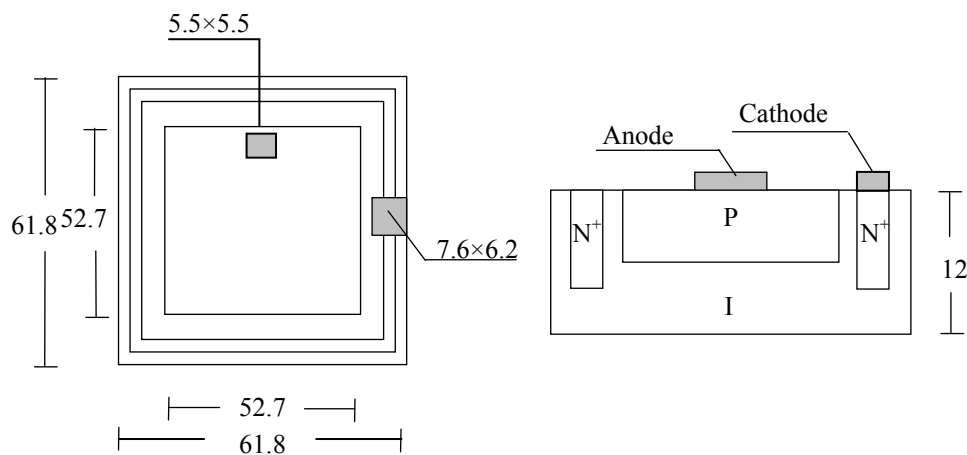
3. Size

- Chip size : $61.811\text{mil} \times 61.811\text{mil} \pm 1\text{mil}$ ($1.57\text{mm} \times 1.57\text{mm} \pm 0.025\text{mm}$)
- Thickness : $12\text{mil} \pm 1\text{mil}$ ($0.300\text{mm} \pm 0.025\text{mm}$)
- Active area : $52.756\text{mil} \times 52.756\text{mil}$ ($1.340\text{mm} \times 1.340\text{mm}$)
- Pattern drawing : per fig. 1

4. Electro-Optical Characteristics

($T_a = +25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit.
Forward Voltage	V_F	$I_F=20\text{mA}$, $H=0$	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	20	nA
Light Current	I_L	$V_R=5\text{V}$, H as $1\text{mw}/\text{cm}^2@940\text{nm}$		12		μA
Peak Sensing Wavelength	λ_p			940		nm
Total Capacitance	C_J	$V_R=3\text{V}$, $H=0$, $F=1\text{MHz}$		16		pF



Unit : mil

fig. 1

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