

Si Photo-diode Chip—TK0043PDN

1. Scope

- The specification applies to PIN silicon photo-diode chips.
- Type : TK0043PDN.

2. Structure

- PIN planar type.
- Electrode topside (anode) : Aluminum.
- Electrode backside (cathode) : Gold.

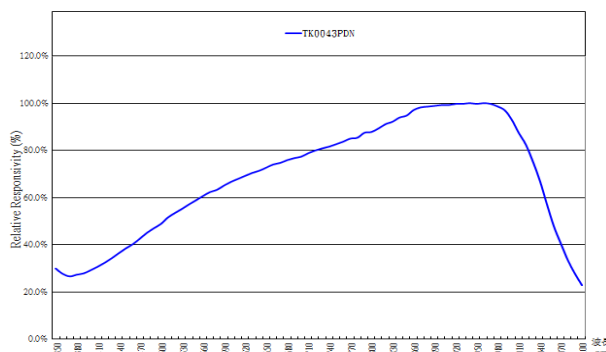
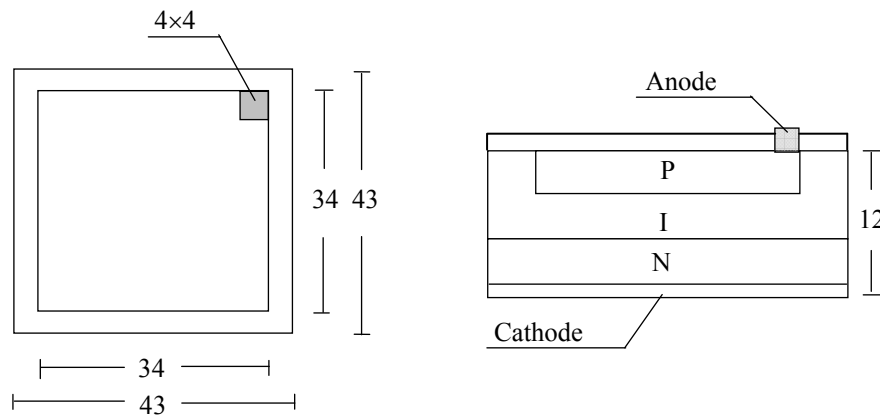
3. Size

- Chip size : 43mil × 43mil ± 1.5mil (1.090mm × 1.090mm ± 0.038mm)
- Thickness : 12mil ± 1mil (0.300mm ± 0.025mm)
- Active area : 34mil × 34mil ± 0.5mil (0.864mm × 0.864mm ± 0.013mm)
- Pad size : 4mil × 4mil ± 0.4mil (0.102mm × 0.102mm ± 0.01mm)
- Pattern drawing : per fig. 1

4. Electro-Optical Characteristics

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

Parameter	Symbol	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	$V_R=10\text{V}$, $H=0$		2	10	nA
Light Current	I_L	$V_R=5\text{V}$, H as $1\text{mw/cm}^2@940\text{nm}$		28		μA
Peak Sensing Wavelength	λ_p			940		nm
Junction Capacitance	C_J	$V_R=3\text{V}$, $H=0$, $F=1\text{MHz}$		4.9		pF



Unit : mil

fig. 1

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