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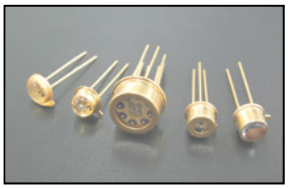
SPD400-0F



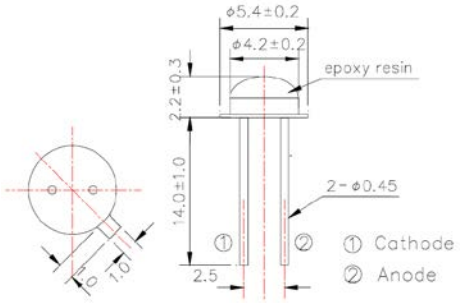
TECHNICAL DATA

Silicone PD, TO package

SPD400-0F is a PIN-photodiode containing a large chip with 2x2 mm active area, mounted on a TO-46 stem and hermetical sealed with epoxy resin. This device is featuring excellent responsibility and a high photocurrent. It's designed to be easy of setting up optically with a wide angle of half sensitivity of ±60 degrees.

Specifications

- Spectral Responsivity (Peak): 900 nm
- Chip Size: 2.3 x 2.3 mm
- Active Area: 2.0 x 2.0 mm
- Package:
  Type: TO-46
  Lens: epoxy resin



(Unit: mm)

Absolute Maximum Ratings (T_A=25°C)

Item	Symbol	Value	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	170	V
Operating Temperature	T_{opr}	-25 … +100	°C
Storage Temperature	T_{stg}	-30 … +125	°C
Soldering Temperature *[1]	T_{sol}	240	°C

*[1] must be completed within 3 seconds at 240°C

Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse Photo Current	I_L	V_R=10V, L=1000Lx	-	50	-	µA
Reverse Dark Current	I_D	V_R=10V	-	5	30	nA
Open Circuit Voltage	V_{OC}	V_R=10V, L=1000Lx	-	390	-	mV
Spectral Responsivity (Peak)	λ_P		-	900	-	nm
Half Angle of Sensitivity	$\Theta_{1/2}$			±60	-	deg
Total Capacitance	C_T	V_R=10V, f=1MHz	-	18	-	pF
Rise Time (10-90%)	t_r	R_L=1KΩ, V_R=10V	-	45	-	ns
Fall Time (10-90%)	t_f		-	45	-	ns

Note: The above specifications are for reference purpose only and subjected to change without prior notice.