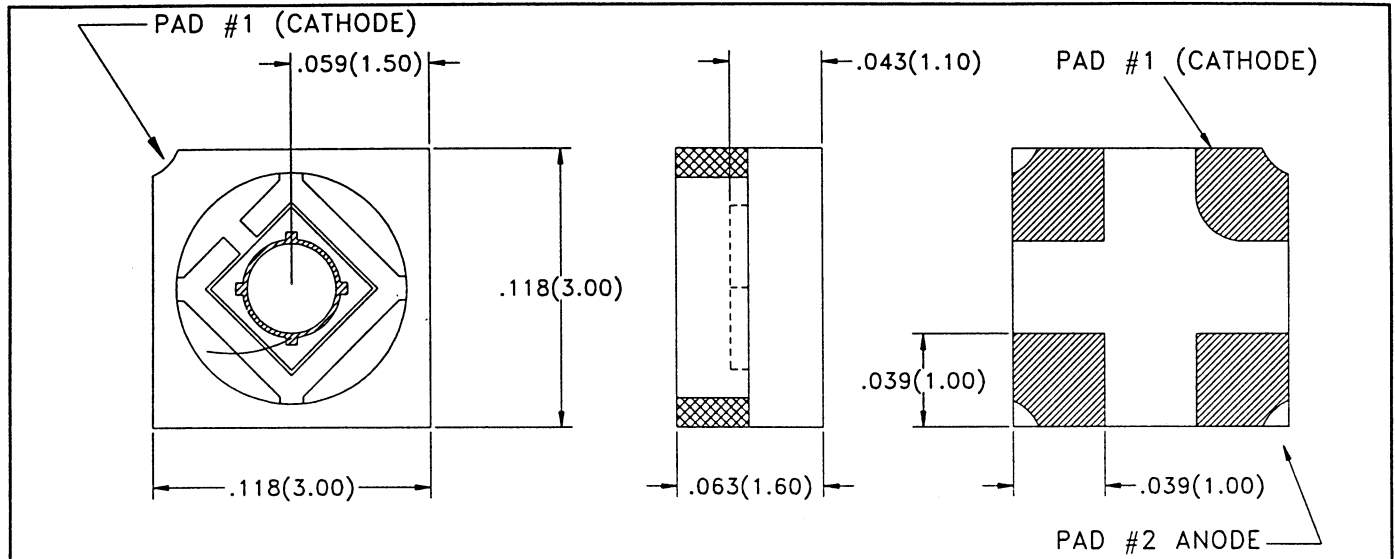


# Surface Mount Silicon PIN Photodiode

## Type OPR5910



### Features

- Surface Mountable
- Circular Active Area
- High Temperature Operation

### Absolute Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Storage and Operating Temperature	-55° C to +125° C
Reverse Breakdown Voltage	35 V Min.
Solder Temperature (Vapor Phase Reflow for 30 sec.)	235° C

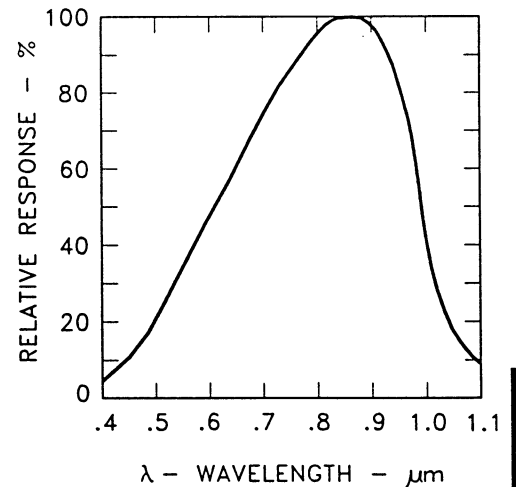
### Description

Enclosed in a compact polyimide chip carrier, this circular PIN photodiode is well suited for open air communications and ambient light detection circuits. Peak responsivity at the wavelength of 880 nm results in maximum coupling efficiency with Optek GaAlAs LEDs. The custom opaque package material shields the photodiode from stray light and can withstand multiple exposures to the most demanding soldering conditions. The wrap around solder pads are gold plated for exceptional storage and wetting characteristics.

### PIN OUT:

- PIN #1. CATHODE
- 2. ANODE
- 3. N/C
- 4. N/C

SPECTRAL RESPONSIVITY



### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITION
$R_\lambda$	Responsivity	.45			A/W	$\Phi_e = 10 \mu\text{W}$ , $\lambda = 890 \text{ nm}$ , $V = 0 \text{ V}$
$V_{(BR)R}$	Reverse Breakdown Voltage	35			V	$I_R = 100 \mu\text{A}$
$I_D$	Reverse Dark Current			30	nA	$V_R = 10 \text{ V}$
$C_T$	Capacitance		25		pf	$V_R = 0 \text{ V}$
L x W	Active Area		.73		mm <sup>2</sup>	