



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



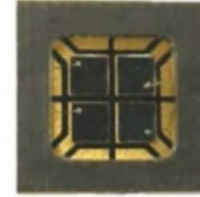
# Surface Mount Quad Photodiode



## OPR5925

### Features:

- Surface mountable
- Closely matched responsivity
- High temperature operation
- Separate cathode connections



### Description:

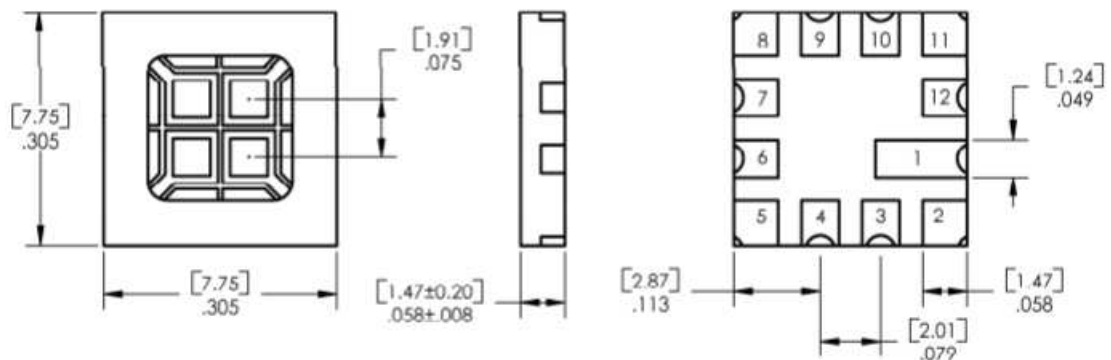
Each OPR5925 device is a four-element photodiode that is enclosed in a compact polyamide chip carrier and designed for a variety of encoder and control applications. The single chip construction ensures excellent matching and very tight dimensional tolerances between active areas. The custom opaque package shields the photodiodes from stray light and can withstand multiple exposures to the most demanding soldering conditions, while the wraparound gold-plated solder pads offer exceptional storage and wetting characteristics. Each anode and cathode in the OPR5925 is bonded out separately, which enables external connection in any desired configuration to match the sensing circuit requirements. See Application Bulletin 237 for handling instructions.

### Applications:

- Encoder applications
- Control applications

**Warning: Front Window is pressure sensitive. Do not apply pressure or high vacuum to window.**

Ordering Information						
Part Number	Receiver Type	# of Elements	Responsivity (mA/mW) Min.	Reverse Voltage Min.	Active Area (mm <sup>2</sup> )	Packaging
OPR5925	Photodiode Array	4	0.45	35	0.75 (each)	Tube



TOLERANCE IS ±.005 [0.13] DIMENSIONS ARE IN INCHES AND [MILLIMETERS].



Pin #	OPR5925	Pin #	OPR5925	Pin #	OPR5925
1	Anode 1	5	Cathode 2	9	N. C. / N.C.
2	Cathode 1	6	Anode 2	10	N. C. / N.C.
3	N. C. / N.C.	7	Anode 3	11	Cathode 4
4	N. C. / N.C.	8	Cathode 3	12	Anode 4

### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | Optek Technology, Inc.  
1645 Wallace Drive, Ste. 130, Carrollton, TX USA 75006 | Ph: +1 972 323 2200  
www.ttelectronics.com | sensors@ttelectronics.com



# Surface Mount Quad Photodiode



## Electrical Specifications

### 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 / minute
Solder reflow time within 5°C of peak temperature is 20 to 40 seconds <sup>(1)</sup>	250° C

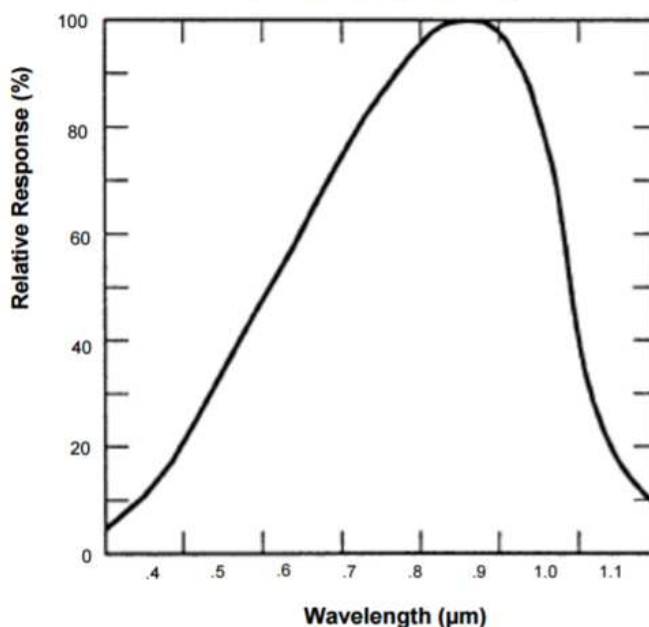
### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
R	Responsivity	.45	-	-	A/W	$E_e = 10\ \mu\text{W}$ , $\lambda = 890\ \text{nm}$ , $V = 0\ \text{V}$
$V_{BR}$	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	-	10	-	pf	$V_R = 10\ \text{V}$
Lx W	Active Area (per diode)	-	0.75	-	mm <sup>2</sup>	(0.86 mm x 0.86 mm)

Notes:

(1) Solder time less than 5 seconds at temperature extreme.

Spectral Responsivity



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