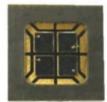
Surface Mount Quad Photodiode

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.



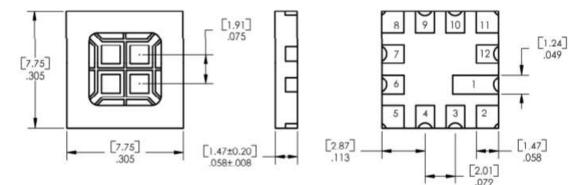
(Human Body Model)







Ordering Information							
Part Number	Receiver Type	# of Elements	Responsivity (mA/mW) Min.	Reverse Voltage Min.	Active Area (mm ²)	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 #	OPR 5925
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 C		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.

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Surface Mount Quad Photodiode

OPR5925



Electrical Specifications

Absolute Maximum Ratings (T_A = 25° C unless otherwise noted)

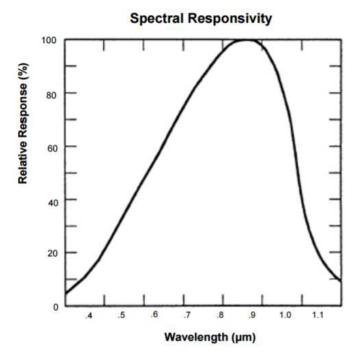
Storage and Operating Temperature	-55° C to +125°C
Reverse Breakdown Voltage	35 V / minute
Solder reflow time within 5°C of peak temperatures is 20 to 40 seconds (1)	250° C

Electrical Characteristics (T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
R	Responsivity	.45	-	-	A/W	$E_e = 10 \ \mu W$, $\lambda = 890 nm$, $V = 0 \ V$
V _{BR}	Reverse Breakdown Voltage	35	-	-	V	Ι _R = 100 μΑ
Ι _D	Reverse Dark Current	-	-	30	nA	V _R = 10 V
C _T	Capacitance	-	10	-	pf	V _R = 10 V
Lx W	Active Area (per diode)	-	0.75	-	mm²	(0.86 mm x 0.86 mm)

Notes:

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



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