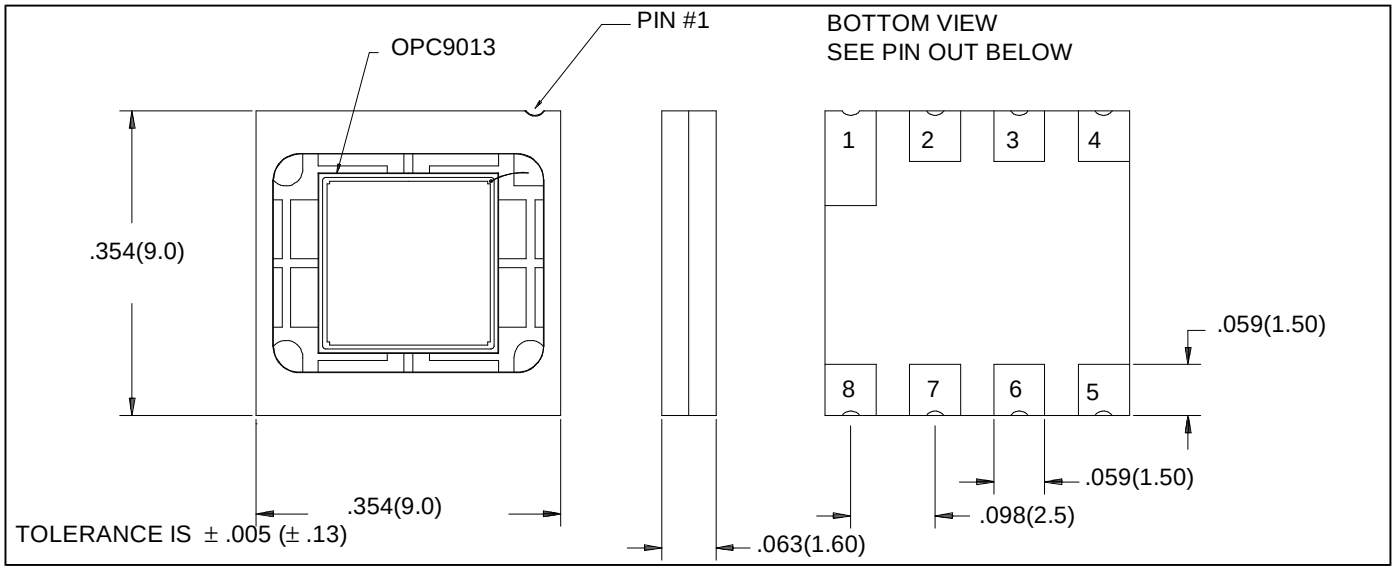
Large Area SMD Silicon Photodiode
Type OPR5913



Features

- Surface mountable
- Large active area
- High temperature operation

Description

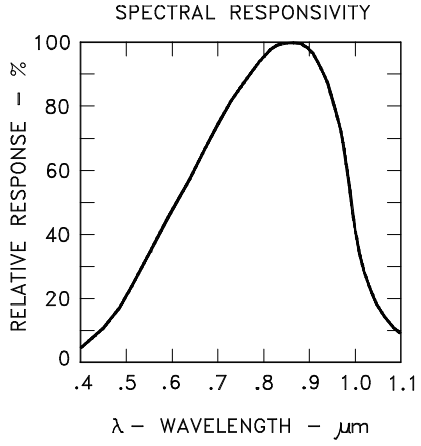
Enclosed in a compact polyimide chip carrier, this large area photodiode is well suited for open air communication applications and ambient light detection. The custom opaque package material shields the photodiode from stray light and can withstand multiple exposures to the most demanding soldering conditions. The wrap around solder pads are gold plated for exceptional storage and wetting characteristics.

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

Storage and Operating Temperature . . . . . -55° C to +125° C
Reverse Breakdown Voltage . . . . . 10 V Min.
Solder Temperature (Vapor Phase Reflow for 30 sec.) . . . . . 235° C

PIN OUT:

PIN #1.	ANODE
2.	COMMON CATHODE
3.	COMMON CATHODE
4.	N/C
5.	N/C
6.	COMMON CATHODE
7.	COMMON CATHODE
8.	N/C



Electrical Characteristics (T_A = 25° C unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Rλ	Responsivity	.40			A/W	Φ_e = 10 μW, λ = 890 nm, V = 0
$V_{(BR)R}$	Reverse Breakdown Voltage	10			V	I_R = 100 μA
I_D	Reverse Dark Current			100	nA	V_R = 0.5 V
C_T	Capacitance		1000		pf	V_R = 0 V
			250		pf	V_R = 10 V
L x W	Active Area		25		mm^2	(5.0 mm x5.0 mm)