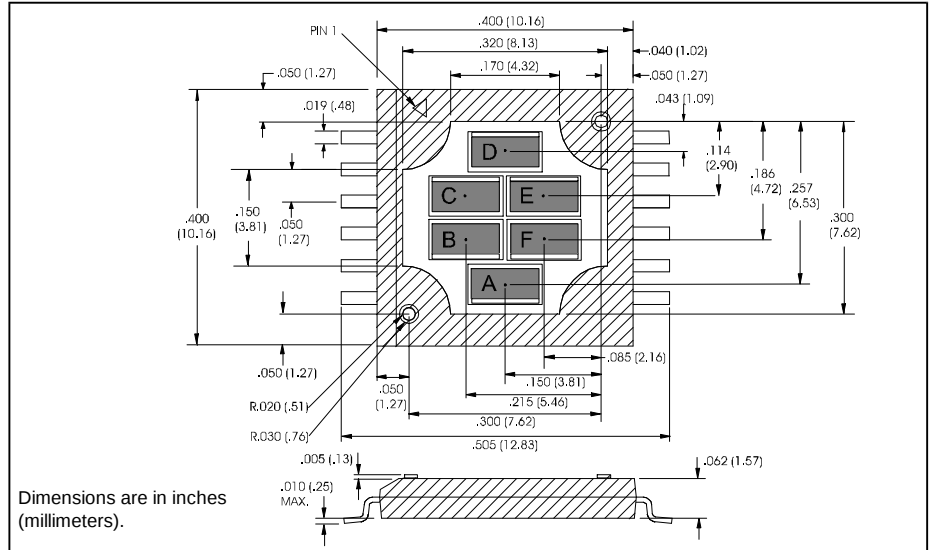
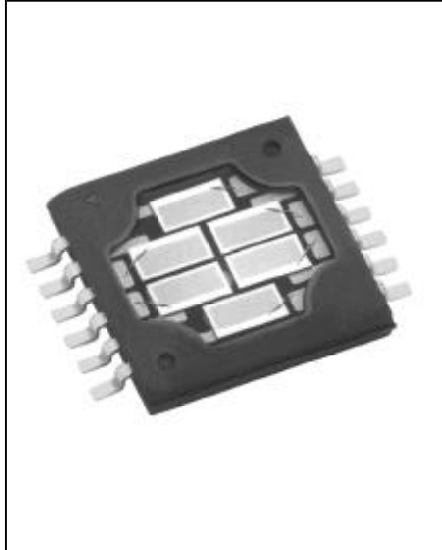


Six Element SMD Photodiode Array

Type OSM960, OSM960P



Features

- Surface mountable
- Closely matched responsivity
- High temperature operation

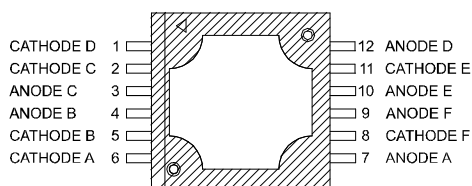
Description

The OSM960 is a six element photodiode array that has been specifically designed to meet the needs of motor encoder applications. Six individual chips are mounted on isolated cathode contacts to allow external connection in any desired configuration.

The plastic, gull-wing leaded packages are surface mountable and are compatible with automated manufacturing processes.

Similar to:
OPR2100

PIN OUT



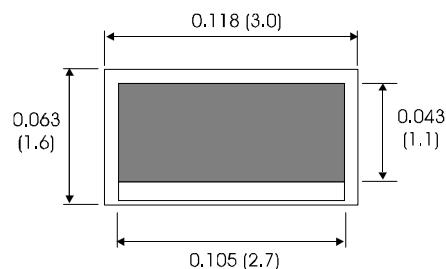
Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Storage and Operating Temperature	-55 $^\circ\text{C}$ to +110 $^\circ\text{C}$
Reverse Breakdown Voltage	50 V
Solder Temperature (Vapor Phase Reflow for 30 sec.)	235 $^\circ\text{C}$

NOTE:

Alignment pins shown are for "P" suffix part number only.

Sensor Detail

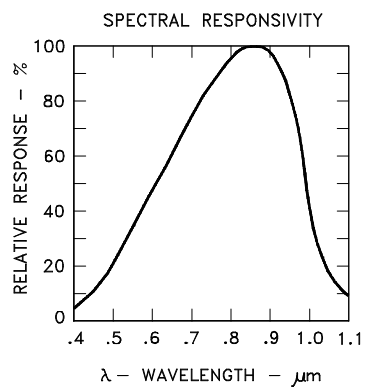


Type OSM960, OSM960P

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

SYMBOL	PARAMETERS	MIN	TYP	MAX	UNITS	TEST CONDITIONS
R_{λ}	Responsivity	0.45			A/W	$\Phi_e = 10\ \mu\text{W}$, $\lambda = 890\ \text{nm}$, $V = 0\ \text{V}$
$V_{(BR)R}$	Reverse Breakdown Voltage	50			V	$I_R = 100\ \mu\text{A}$
I_D	Reverse Dark Current			10	nA	$V_R = 10\ \text{V}$
C_T	Capacitance		10		pf	$V_R = 10\ \text{V}$
L x W	Active Area (per diode)		2.9		mm^2	(1.1 mm x 2.6 mm)

Typical Performance Curve



Optek reserves the right to make changes at any time in order to improve design and to supply the best product possible.

Optek Technology, Inc.

1215 W. Crosby Road

Carrollton, Texas 75006

(972) 323-2200

Fax (972) 323-2396