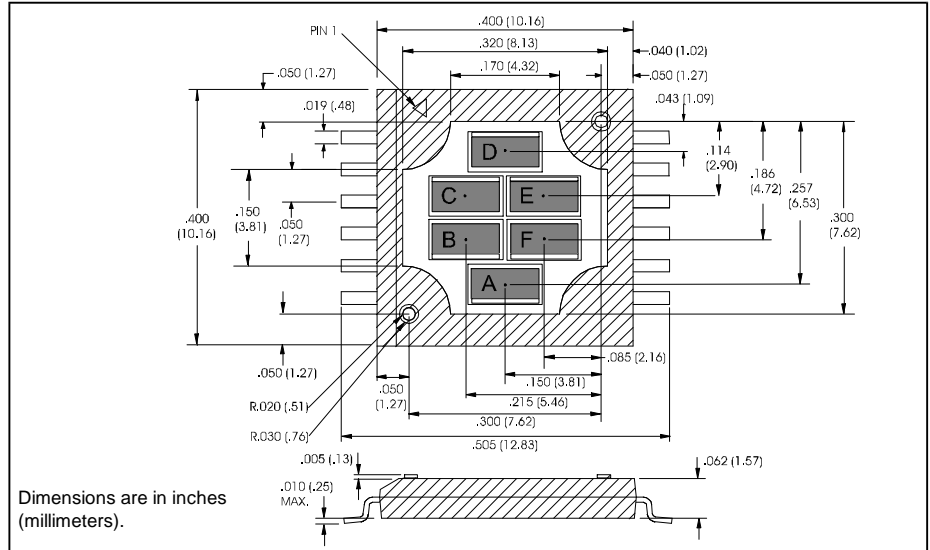
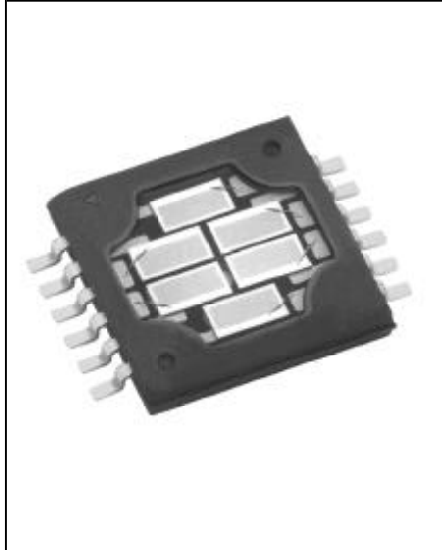


# Six Element SMD Photodiode Array

## Type OSM960, OSM960P



### Features

- Surface mountable
- Closely matched responsivity
- High temperature operation

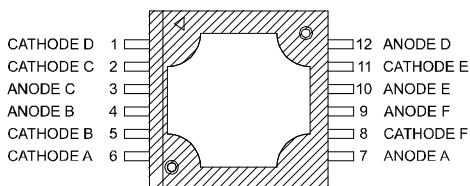
### Description

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



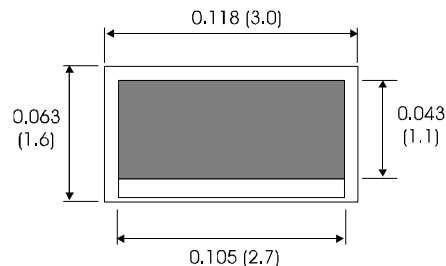
### Absolute Maximum Ratings (TA = 25° C unless otherwise noted)

Storage and Operating Temperature	-55° C to +110° C
Reverse Breakdown Voltage	50 V
Solder Temperature (Vapor Phase Reflow for 30 sec.)	235° 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
$R_\lambda$	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		$\text{mm}^2$	(1.1 mm x 2.6 mm)

## Typical Performance Curve

