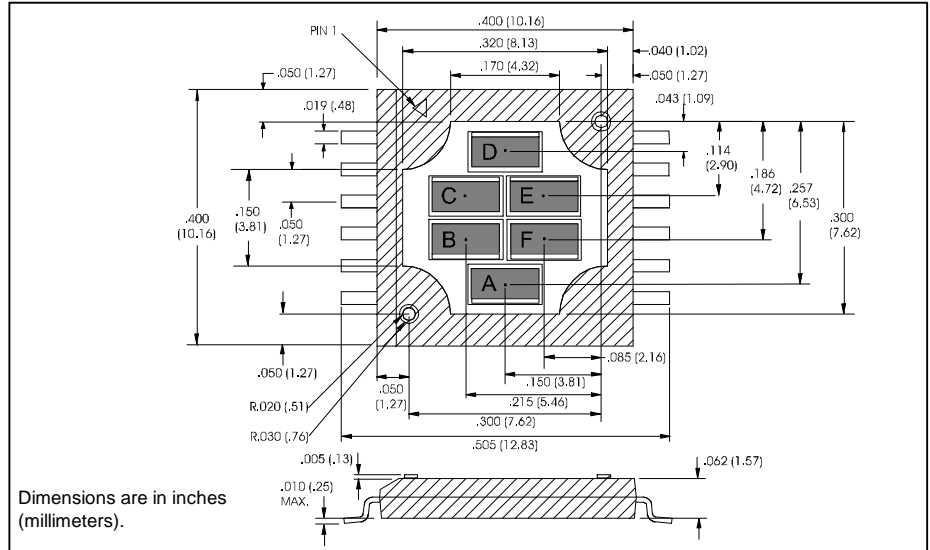
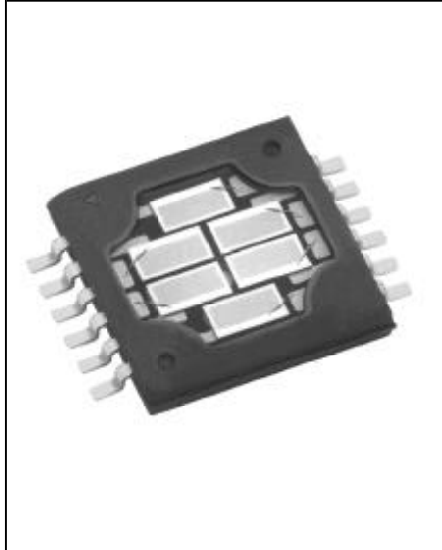


Six Element SMD Photodiode Array

Type OSM960, OSM960P



Features

- Surface mountable
- Closely matched responsivity
- High temperature operation

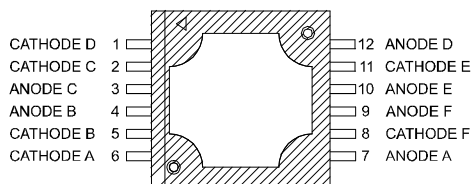
Description

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



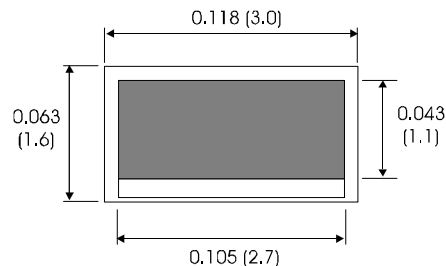
Absolute Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| | |
|---|---|
| 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

