

Visible Enhanced Photo Detectors
PRODUCT PREVIEW

DESCRIPTION

Microsemi's Optomite package is designed for low profile Visual Enhanced Photodetector applications in wavelengths from 400nm to 1100nm.

Based on Microsemi's patented Powermite 3 packaging technology, the new Optomite offers a low cost alternative to conventional hermetic photodetector packages.

IMPORTANT: For the most current data, consult MICROSEMI's website: <http://www.microsemi.com>

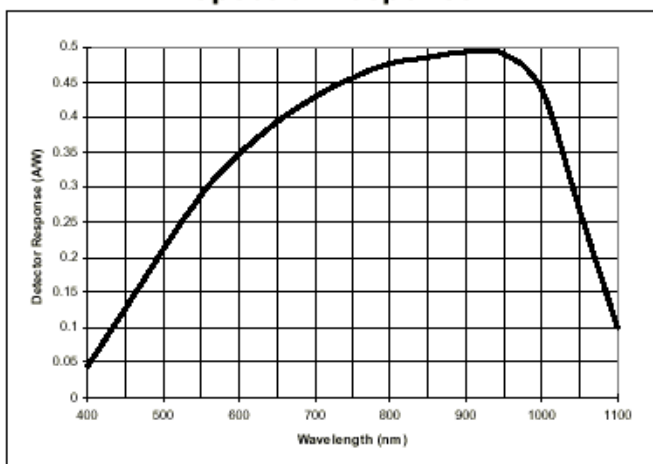
KEY FEATURES

- Low Dark Current
- Low Noise
- High Break Down Voltage

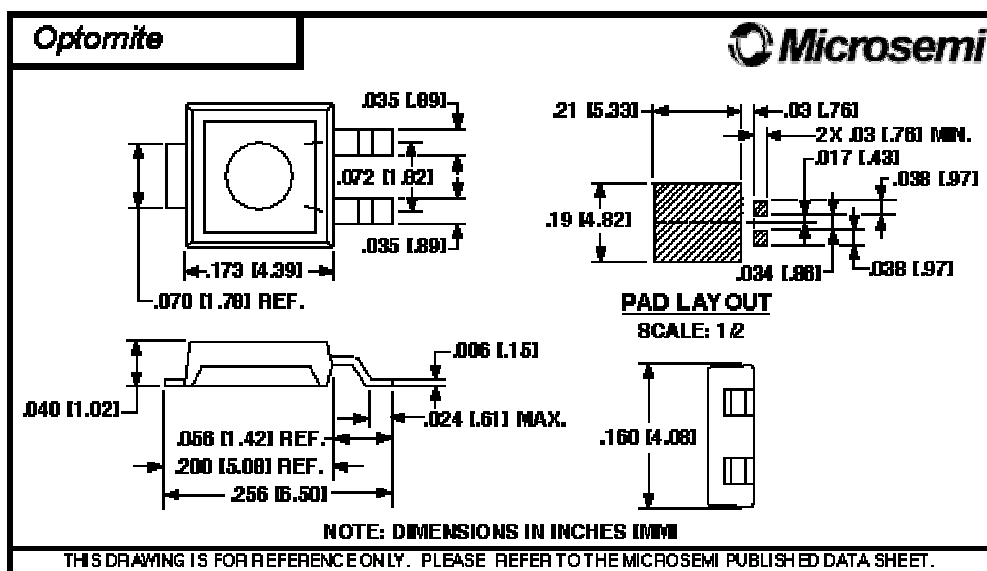
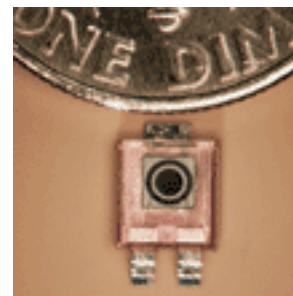
APPLICATIONS

- Ambient Light Detection for Handheld Display Applications
- Oxymeters
- Laser Gyros
- Spectrometers

Spectral Response



MECHANICAL



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Electrical Characteristics @ 25°C

| PV | Active Area | | R | C _J | R _{SH} | NEP | T _R |
|----------------|-----------------|-------------|-------|----------------|-----------------|-----------------------|------------------------|
| | | | 650nm | 0V / 1kHz | +/- 10 mV | 0v650nm/1kHz | 0V/650nm 50Ohm Load |
| DEVICE # | mm ² | Dia Inch | A/W | pF | MOhms | W/(Hz) ^{1/2} | ns |
| P3MXP1039 PV-V | 1.0 | 0.044 | 0.35 | 150 | 5,000 | 5 X 10 ⁻¹⁵ | 20 |

Electrical Characteristics @ 25°C

| PC | Active Area | | R | | ID | | | V _B 10μA | C _J 1kHz | | | NEP 0V 650nm 1kHz | T _R 650nm 50Ohm Load ns | |
|----------------|-----------------|-------------|-------|------|-------|-------|------|------------------------|------------------------|-----|------|----------------------------|--|------|
| | | | A / W | | nA | | | V | pF | | | W/(Hz) ^{1/2} | 0 V | -10V |
| DEVICE # | mm ² | Dia Inch | 650mm | PEAK | 0.01V | -1.0V | -10V | min | 0V | -1V | -10V | W/(Hz) ^{1/2} | 0 V | -10V |
| P3MXP1039 PC-V | 1.0 | 0.044 | 0.4 | 0.55 | 0.01 | 0.10 | 2.0 | 50 | 25 | 20 | 10 | 5 X 10 ⁻¹⁵ | 5 | 2 |



P3MXP1039 PC/PV

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www.Microsemi.com

NOTES