

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>

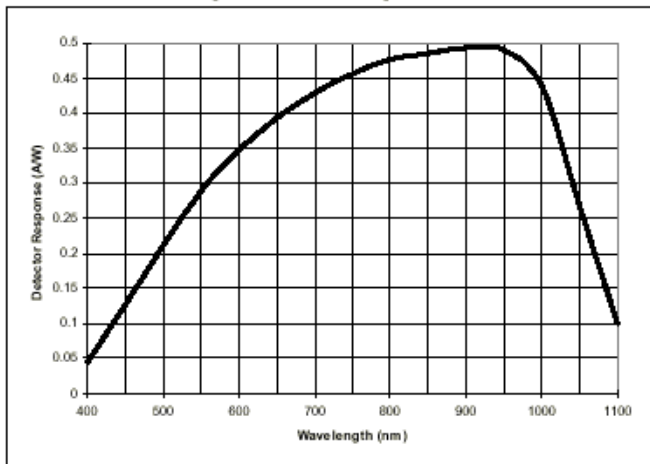
KEY FEATURES

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

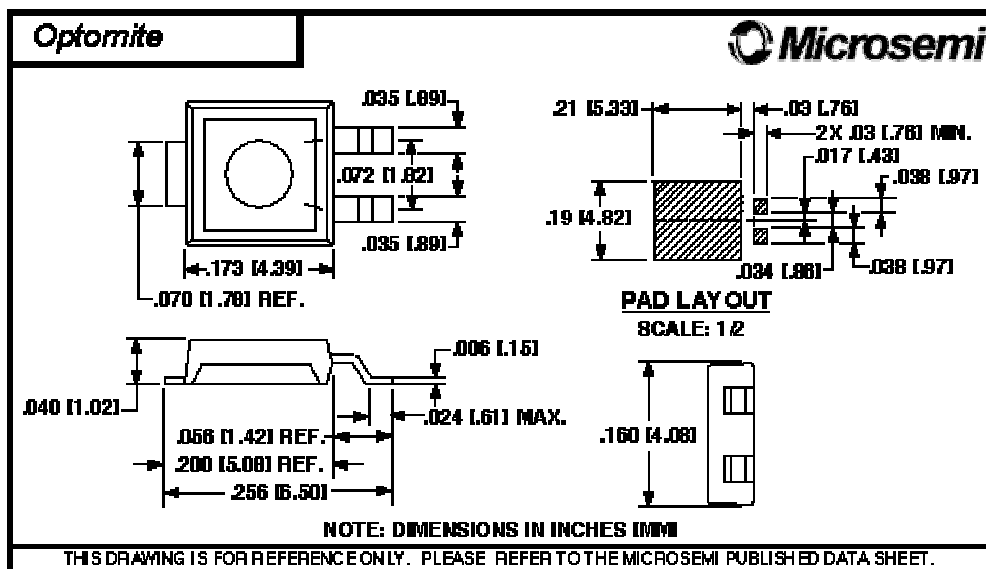
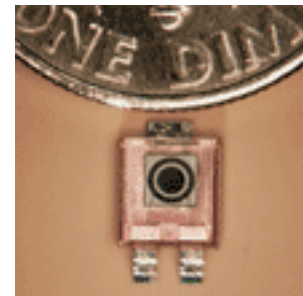
APPLICATIONS

- 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
	mm ²	Dia Inch	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		I _D			V _B 10μA	C _J 1kHz			NEP 0V 650nm 1kHz	T _R 650nm 50Ohm Load ns	
	mm ²	Dia Inch	650nm	PEAK	0.01V	-1.0V	-10V	V	0V	-1V	-10V	W/(Hz) ^{1/2}	0 V	-10V
DEVICE #	mm ²	Dia Inch	A / W											
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