

电话: 0755-84870203

网址: www.highlightoptics.com



NIR/Red Enhanced 6 mm² Photodiode-Preamplifier

ODA-6W-100M



FEATURES

- Large Active Area
- Low Noise
- High Sensitivity
- Custom Gains Available
- Hermetically Sealed TO-39

Electro-Optical Characteristics at 23°C

Parameters	Test Conditions	Min	Тур	Max	Units
Active Area	3.30 mm x 1.78 mm		5.87		mm ²
Dark Offset	V _s = ±5 V		1.2	±2	mV
Dark Offset Noise	$V_s = \pm 5$ BW = 0.1 to 1000 kHz		198	250	μV rms
Sensitivity	V _s = ±5 V λ = 940 nm	55	63		V/µW
Frequency Response (-3 db)	V _s = ±5 V	900	1000		Hz
NEP	λ = 940 nm		30		fW/√Hz
Transimpedance Gain			100		ΜΩ
Supply Current			850	950	μΑ

Absolute Ratings

Parameters	Units
Voltage Supply Range +V to –V*	5 to 15 V
Power Dissipation	15 mW
Storage and Operating Temperature	−25 to + 100°C
Soldering Temperature (1/16" from case for 3 seconds max)	+260°C

 $^{^{\}star}$ Voltage supply across the device requires a minimum of 5 V to a maximum of 15 V from +V to -V.

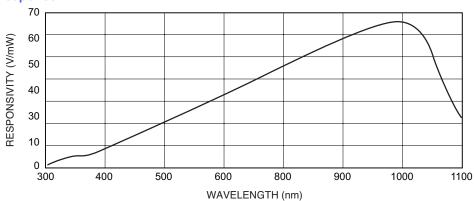


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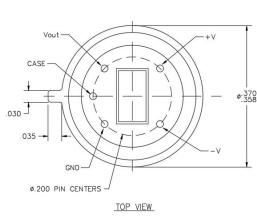
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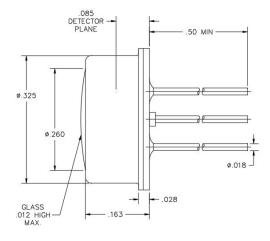
ODA-6W-100M

Typical Spectral Response



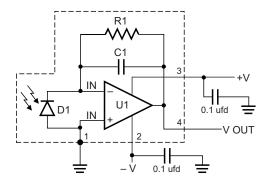
Package Information





ALL DIMENSIONS ARE IN INCH UNITS

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ODA-6W-500M



FEATURES

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- Low Noise
- High Sensitivity
- Custom Gains Available
- Hermetically Sealed TO-39

Electro-Optical Characteristics at 23°C

Parameters	Test Conditions	Min	Тур	Max	Units
Active Area	3.30 mm x 1.78 mm		5.87		mm ²
Dark Offset	V _s = ±5 V		1	±2	mV
Dark Offset Noise	$V_s = \pm 5$ BW = 0.1 to 135 kHz		283	500	μV rms
Sensitivity	$V_s = \pm 5 \text{ V}$ $\lambda = 940 \text{ nm}$	275	315		V/µW
Frequency Response (-3 db)	$V_s = \pm 5 \text{ V}$	100	130		Hz
NEP	λ = 940 nm		1.2		fW/√Hz
Transimpedance Gain			500		ΜΩ
Supply Current			850	950	μΑ

Absolute Ratings

Parameters	Units
Voltage Supply Range +V to –V*	5 to 15 V
Power Dissipation	15 mW
Storage and Operating Temperature	−25 to + 100°C
Soldering Temperature (1/16" from case for 3 seconds max)	+260°C

 $^{^{\}star}$ Voltage supply across the device requires a minimum of 5 V to a maximum of 15 V from +V to -V.



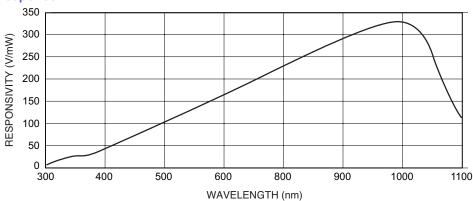
NIR/Red Enhanced 6 mm² Photodiode-Preamplifier

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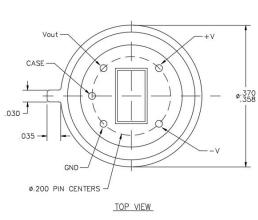
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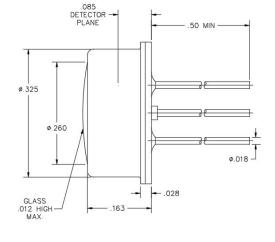
ODA-6W-500M

Typical Spectral Response



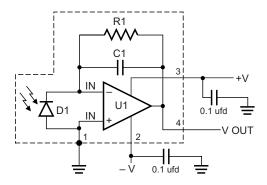
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Blue/Green Enhanced 6 mm² Photodiode-Preamplifier



FEATURES

- Large Active Area
- Low Noise
- High Sensitivity
- Custom Gains Available
- Hermetically Sealed TO-39
- Blue Enhanced Detector

Electro-Optical Characteristics at 23°C

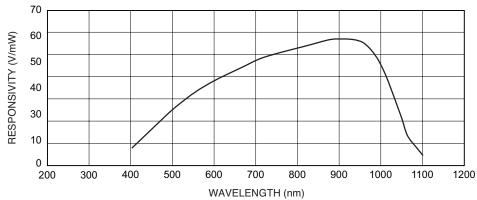
Parameters	Test Conditions	Min	Тур	Max	Units
Active Area	3.30 mm x 1.78 mm		5.87		mm ²
Dark Offset	V _s = ±5 V		1.2	±2	mV
Dark Offset Noise	$V_s = \pm 5$ BW = 0.1 to 1000 kHz		198	250	μV rms
Sensitivity	V _s = ±5 V λ = 450 nm	17	20		V/µW
Frequency Response (-3 db)	$V_s = \pm 5 \text{ V}$	900	1000		Hz
NEP	λ = 450 nm		85		fW/√Hz
Transimpedance Gain			100		ΜΩ
Supply Current			850	950	μΑ

Absolute Ratings

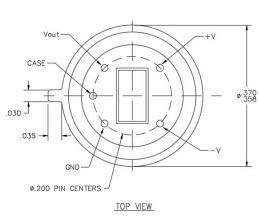
Parameters	Units
Voltage Supply Range +V to –V*	5 to 15 V
Power Dissipation	15 mW
Storage and Operating Temperature	−25 to +100°C
Soldering Temperature (1/16" from case for 3 seconds max)	+260°C

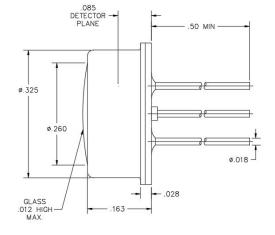
^{*}Voltage supply across the device requires a minimum of 5 V to a maximum of 15 V from +V to -V.

Typical Spectral Response



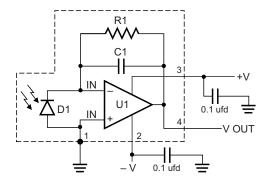
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- Blue Enhanced Detector

Electro-Optical Characteristics at 23°C

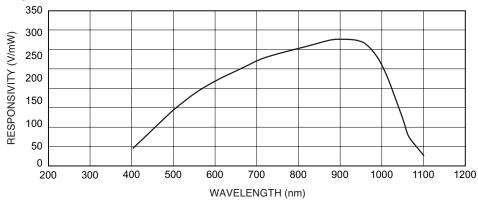
Parameters	Test Conditions	Min	Тур	Max	Units
Active Area	3.30 mm x 1.78 mm		5.87		mm ²
Dark Offset	$V_s = \pm 5 \text{ V}$		1	±2	mV
Dark Offset Noise	$V_s = \pm 5$ BW = 0.1 to 135 kHz		283	500	μV rms
Sensitivity	$V_s = \pm 5 \text{ V}$ $\lambda = 450 \text{ nm}$	85	100		V/µW
Frequency Response (-3 db)	$V_s = \pm 5 V$	100	130		Hz
NEP	λ = 450 nm		4		fW/√Hz
Transimpedance Gain			500		ΜΩ
Supply Current			850	950	μΑ

Absolute Ratings

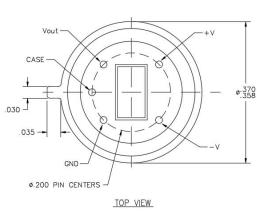
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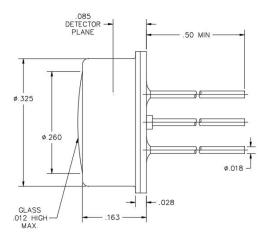
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Typical Spectral Response



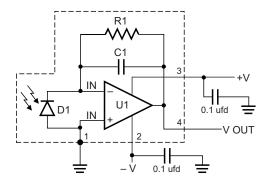
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