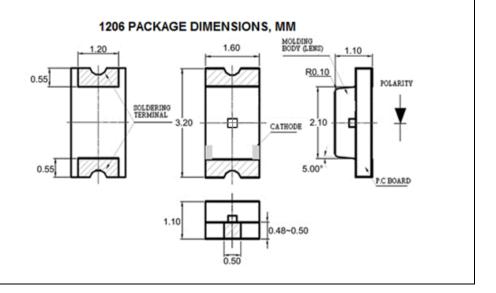


Surface-Mount Photodiode Assembly SD040-101-411

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Precision – Control – Results





DESCRIPTION

The **SD040-101-411** is a high sensitivity low noise UV enhanced 0.79mm² active area silicon photodiode, assembled in a 1206 package.

FEATURES

- Small Footprint
- Low Capacitance
- High Speed
- UV Enhanced

APPLICATIONS

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Industrial Sensors

Light Management

Handheld Devices

RELIABILITY

This Luna high-reliability device is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.

Contact Luna for recommendations on specific test conditions and procedures.

ABSOLUTE MAXIMUM RATINGS

MIN MAX UNITS SYMBOL **Reverse Voltage** 50 V $T_a = 23^{\circ}C$ UNLESS OTHERWISE NOTED --+125 °C Storage Temperature -50 --°C **Operating Temperature** -40 to +105 -°C Soldering Temperature +260---

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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Surface-Mount Photodiode Assembly SD040-101-411

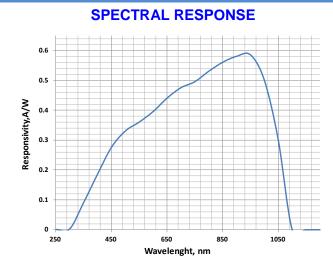
Precision – Control – Results

OPTO-ELECTRICAL PARAMETERS

 $T_a = 23^{\circ}C$ UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Forward Voltage	I _f =10 mA	0.5	0.8	1.3	V
Light Current (2856K)	V _R = 5V; H=1000 lux	-	9.0	-	μΑ
Breakdown Voltage	I _R =100 μA	50	-	-	V
Shunt Resistance	V _{bias} = 10 mV	-	1.0	-	GΩ
Dark Current	V _R = 10 V	-	-	0.5	nA
Junction Capacitance	V _R =5V; f = 1000 kHz	-	20	-	pF

TYPICAL PERFORMANCE



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