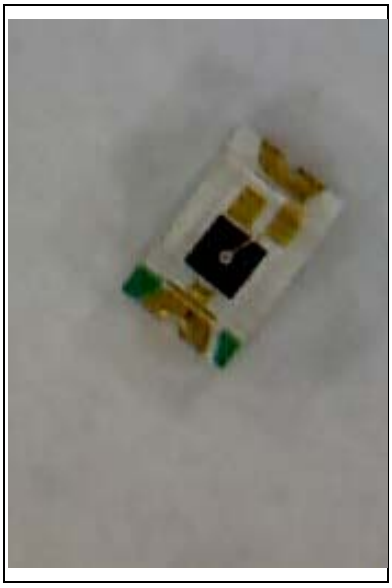
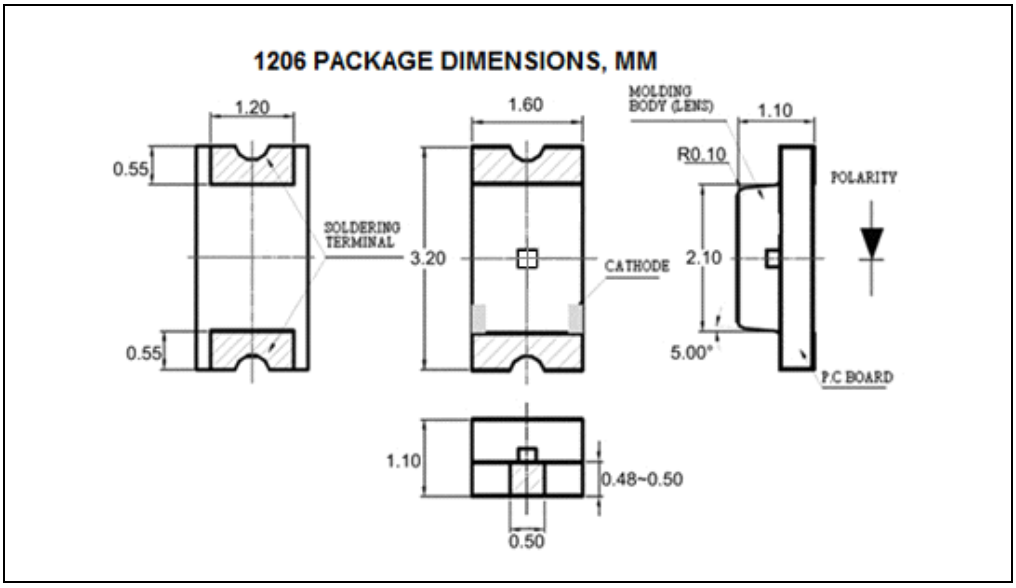
Surface-Mount Photodiode Assembly
SD040-111-411

WWW.LUNAINC.COM **Precision – Control – Results**





DESCRIPTION

The **SD040-111-411** is a high sensitivity, low noise silicon PIN photodiode with 0.79mm² active area, mounted in a 1206 package.

FEATURES

- Small Footprint
- Low Capacitance
- High Speed

RELIABILITY

Contact Luna Optoelectronics for recommendations on specific test conditions and procedures.

APPLICATIONS

- Industrial Sensors
- Light Management
- Handheld Devices

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	50	V	T_a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-50	-	+125	°C	-
Operating Temperature	-40	to	+105	°C	-
Soldering Temperature	-	-	+260	°C	-

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.

REV 09-15-16

© 2016 Luna Optoelectronics. All rights reserved.

Luna Optoelectronics, 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935

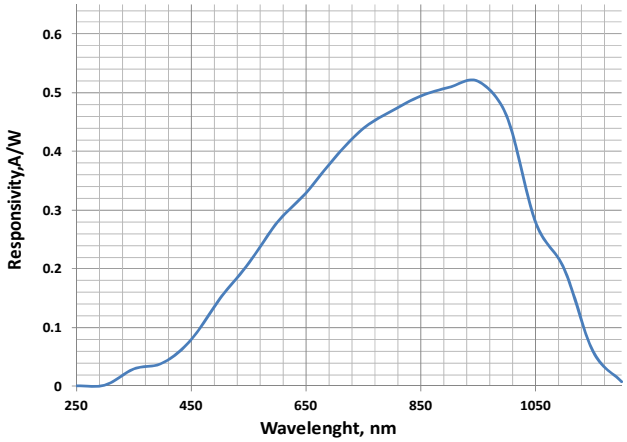
OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	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	-	µA
Breakdown Voltage	I=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

SPECTRAL RESPONSE



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.

REV 09-15-16
© 2016 Luna Optoelectronics. All rights reserved.

Luna Optoelectronics, 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935