



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	-

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

