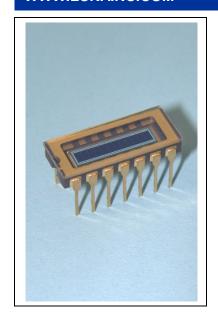
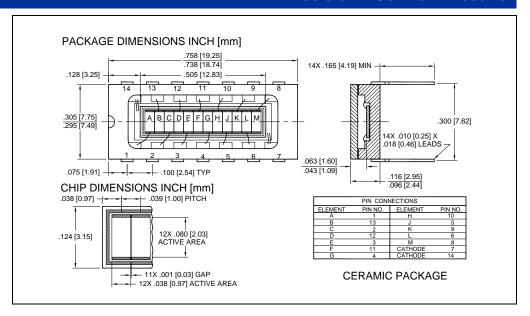


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# **Precision – Control – Results**





#### **DESCRIPTION**

The **SD 219-51-03-301** is a blue enhanced linear array 12 elements silicon photodiode available in a ceramic package.

#### **FEATURES**

- Compact package
- Blue enhanced

## **RELIABILITY**

Contact Luna for recommendations on specific test conditions and procedures.

## **APPLICATIONS**

- Medical
- Industrial



#### **ABSOLUTE MAXIMUM RATINGS**

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage			50	V	T <sub>a</sub> = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-40	to	+100	°C	-
Operating Temperature	-40	to	+75	°C	-
Soldering Temperature*	-	-	+240	°C	-

<sup>\*1/16</sup> inch from case for 3 seconds max.



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# **Precision – Control – Results**

# **OPTO-ELECTRICAL PARAMETERS**

T<sub>a</sub> = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
Dark Current	V <sub>R</sub> = 10V	-	-	2.7	nA	
Shunt Resistance	V <sub>R</sub> = 10 mV	600	-	-	MΩ	
Junction Capacitance	V <sub>R</sub> = 0 V, f = 1 MHz	-	28	33	pF	
Spectral Application Range	Spot Scan	350	-	1100	nm	
Breakdown Voltage	I = 10μA	-	-	-	V	
Noise Equivalent Power	$V_R = 0V$ ; $\lambda = Peak$	-	1.4x10 <sup>-14</sup>	-	W/ √ <sub>Hz</sub>	
Response Time**	$RL = 50\Omega$ , $V_R = 0V$	-	190	-	nS	
	RL = $50\Omega$ , $V_R = 10V$	-	13	-		

<sup>\*\*</sup> Response time of 10% to 90% is specified at 660nm wavelength light.

# **TYPICAL PERFORMANCE**

### **SPECTRAL RESPONSE**

