imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

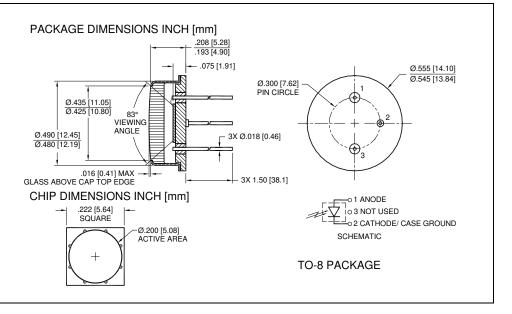
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Blue Enhanced Silicon Photodiode SD200-12-22-041

Precision – Control – Results





DESCRIPTION

The **SD 200-12-22-041** is a blue enhanced silicon PIN photodiode, packaged in a hermetic TO-8 metal package.

FEATURES

- Low Noise
- Blue Enhanced
- High Shunt Resistance
- High Response

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Instrumentation
- Industrial
- Medical



ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	$T_a = 23^{\circ}C$ UNLESS OTHERWISE NOTED
Storage Temperature	-55	to	+150	°C	-
Operating Temperature	-40	to	+125	°C	-
Soldering Temperature*	-	-	+240	°C	-
* 1/16 inch from case for 3 second	ls max				

* 1/16 inch from case for 3 seconds max.

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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REV 01-04-16

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



WWW.LUNAINC.COM

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OPTO-ELECTRICAL PARAMETERS

Precision – Control – Results

 $T_a = 23^{\circ}C$ unless otherwise noted

PARAMETER	TEST CONDITIONS	MIN	ТҮР	ΜΑΧ	UNITS	
Dark Current	V _R = 50V	-	6.5	26.0	nA	
Shunt Resistance	V _R = 10mV	70			MΩ	
Junction Capacitance	$V_{\rm R} = 0V, f = 1 {\rm MHz}$	-	345	-	pF	
	$V_{\rm R} = 5V, f = 1 \rm MHz$	-	102	-		
Spectral Application Range	Spot Scan	350	-	1100	nm	
Responsivity	λ = 450 nm V, V _R =0V	0.20	0.28	-	A/W	
Breakdown Voltage	I = 10 μA	-	50	-	V	
Noise Equivalent Power	$V_R = 0V@ \lambda = Peak$	-	8.9x10 ⁻¹⁴	-	W/ $_{\rm Hz}$	
Response Time**	RL = 50Ω, V _R =0V	-	190	-		
	RL = 50Ω, V _R =10V	-	13	-	nS	

**Response time of 10% to 90% is specified at 660nm wavelength light.

SPECTRAL RESPONSE

TYPICAL PERFORMANCE

0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 0.20 0.00 0.20 0.00 0.20 0.00 0.20 0.00 0.20 0.00 0.20 0.00 0.00 0.20 0.00 0.00 0.20 0.00

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