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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.

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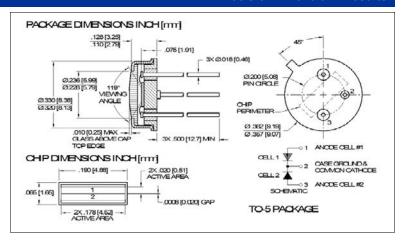




Red Enhanced Bi-Cell Silicon Photodiode SD 160-24-21-021

Precision - Control - Results





DESCRIPTION

The **SD 160-24-21-021** is a red enhanced Bi-Cell silicon photodiode used for nulling, centering, or measuring small positional changes packaged in a hermetic TO-5 metal package.

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

FEATURES

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

APPLICATIONS

- Emitter Alignment
- Position Sensing
- Medical and Industrial



ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	50	V	T _a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-55	-	150	°C	-
Operating Temperature	-40	to	+125	°C	-
Soldering Temperature*	-	-	+240	°C	-
* 1/16 inch from case for 3 seconds i	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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OPTO-ELECTRICAL PARAMETERS

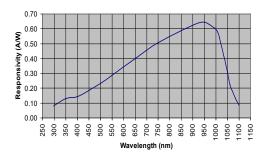
 $T_a = 23$ °C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
Dark Current	V _R = 5 V	-	0.7	3.5	nA	
Shunt Resistance	V _R = 10 mV	300	-	-	ΜΩ	
Junction Capacitance	V _R =0V; f = 1 MHz	-	45	-	pF	
	V _R =10V; f = 1 MHz	-	9	-		
Spectral Application Range	Spot Scan	350	-	1100	nm	
Reponsivity	λ = 633nm, V_R = 0 V	.32	.36	-	A/W	
	λ = 900nm, V_R = 0 V	.50	.55	-		
Breakdown Voltage	Ι=10 μΑ	-	50	-	V	
Noise Equivalent Power	V _R = 0V @ I=950nm	-	2.5x10 ⁻¹⁴	-	W/ √ _{Hz}	
Response Time**	$RL = 50 \Omega, V_R = 0 V$	-	190	-		
	RL = 50 Ω, V _R = 10 V	-	13	-	mS	

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

TYPICAL PERFORMANCE

SPECTRAL RESPONSE



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