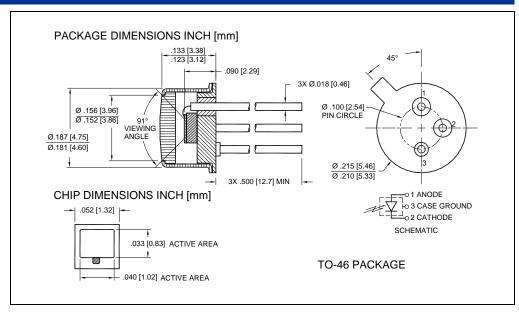


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DESCRIPTION

The **SD 041-11-33-211** is an ultra low capacitance silicon PIN photodiode, red enhanced, packaged in a leaded hermetic TO-46 metal package.

FEATURES

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

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Military
- Industrial
- Medical

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	T _a = 23°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	s 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.

SD041-11-33-211

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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current	V _R = 50V	-	2.0	8.0	nA
Junction Capacitance	$V_R = 0V, f = 1 MHz$	-	5.6	-	pF
	$V_R = 50V, f = 1 \text{ MHz}$	-	0.5	-	
Spectral Application Range	Spot Scan	350	-	1100	nm
Responsivity	λ = 900nm, V_R =0 V	0.50	0.55	-	A/W
Breakdown Voltage	Ι = 10 μΑ	-	50	-	V
Noise Equivalent Power	V _R = 5V@ λ=950nm	-	4.8x10 ⁻¹⁴	-	W/√ _{Hz}
Response Time**	$RL = 50\Omega, V_R = 0V$	-	190	-	nS
	$RL = 50\Omega$, $V_R = 50V$	-	13	-	

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

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

