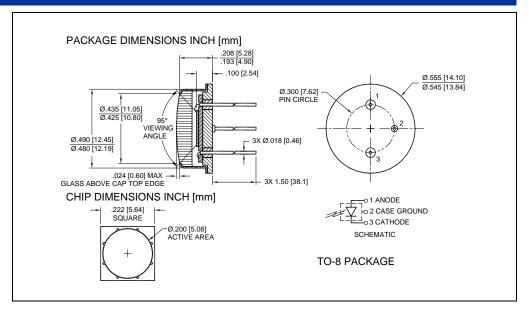


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Precision – Control – Results





DESCRIPTION

The **SD 200-13-23-242** is a UV enhanced silicon PIN packaged in a hermetic TO-5 metal package.

FEATURES

- Low Noise
- UV 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	T _a = 23°C UNLESS OTHERWISE NOTED
Reverse Voltage	-	-	75	V	-
Storage Temperature	-55	to	+150	°C	-
Operating Temperature	-40	to	+125	°C	-
Soldering Temperature*	-	-	+240	°C	-

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



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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 = 5V	-	6.0	30	nA	
Shunt Resistance	V _R = 10 mV	77	-	-	МΩ	
Junction Capacitance	$V_R = 0V$, $f = 1 MHz$	-	345	-	ъГ	
	$V_R = 5V, f = 1 \text{ MHz}$	-	102	-	pF	
Spectral Application Range	Spot Scan	250	-	1100	nm	
Responsivity	λ = 365nm V, V _R =0V	0.14	0.18	-	A/W	
Breakdown Voltage	Ι = 10 μΑ	-	10	-	V	
Noise Equivalent Power	V _R = 0V@ λ=350nm	-	8.9x10 ⁻¹⁴	-	W/ √ _{Hz}	
Response Time**	$RL = 50\Omega$, $V_R = 0V$	-	190 13	-	nS	
	$RL = 50\Omega$, $V_R = 10V$	-				

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

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

