



DESCRIPTION

The **SD 100-13-23-222** 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	+150	°C	-	-
Operating Temperature	-40	+125	°C	-	-
Soldering Temperature*	-	+240	°C	-	-

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

OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current	V _R = 5V	-	1	6.5	nA
Shunt Resistance	V _R = 10 mV	286	-	-	MΩ
Junction Capacitance	V _R = 0V, f = 1 MHz	-	87	-	pF
	V _R = 50V, f = 1 MHz	-	9	-	
Spectral Application Range	Spot Scan	250	-	1100	nm
Responsivity	λ = 365nm V, V _R = 0V	0.14	0.18	-	-
Breakdown Voltage	I = 10 μA	30	50	-	V
Noise Equivalent Power	V _R = 0V @ λ = Peak	-	-	-	W/√Hz
Response Time	RL = 50Ω, V _R = 0V	-	190	-	nS
	RL = 50Ω, V _R = 10V	-	13	-	

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

