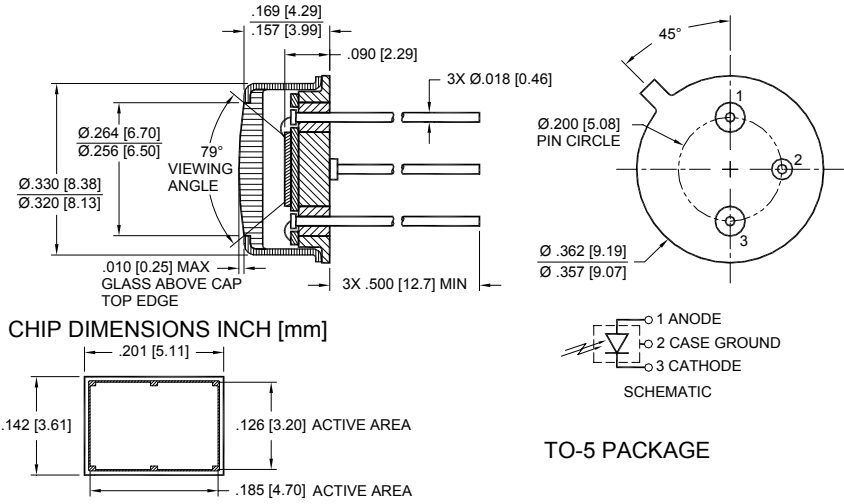




PACKAGE DIMENSIONS INCH [mm]



FEATURES

- Low noise
- UV enhanced
- High shunt resistance
- High response

DESCRIPTION

The SD 172-13-23-222 is a UV enhanced silicon PIN packaged in a hermetic TO-5 metal package.

APPLICATIONS

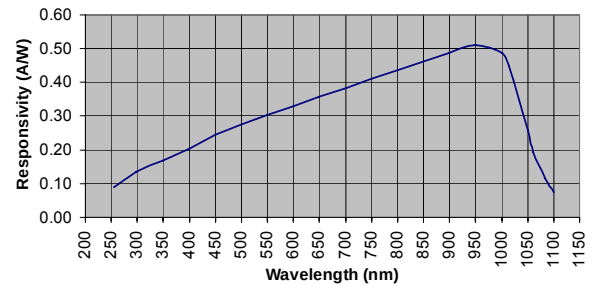
- Instrumentation
- Industrial
- Medical

ABSOLUTE MAXIMUM RATING (TA = 23°C UNLESS OTHERWISE NOTED)

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		75	V
T _{STG}	Storage Temperature	-55	+150	°C
T _O	Operating Temperature	-40	+125	°C
T _S	Soldering Temperature*		+240	°C

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

SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA = 23°C UNLESS OTHERWISE NOTED)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _D	Dark Current	V _R = 5V		4.4	19	nA
R _{SH}	Shunt Resistance	V _R = 10 mV	105			MΩ
C _J	Junction Capacitance	V _R = 0 V, f = 1 MHz		255		pF
		V _R = 50 V, f = 1 MHz		75		
λ range	Spectral Application Range	Spot Scan	250		1100	nm
R	Responsivity	λ = 365nm, V _R = 0 V	0.14	0.18		A/W
V _{BR}	Breakdown Voltage	I = 10 μA		10		V
NEP	Noise Equivalent Power	V _R = 0V @ λ = 365nm		7.2x10 ⁻¹⁴		W/√Hz
t _r	Response Time**	RL = 50 Ω, V _R = 0 V		190		nS
		RL = 50 Ω, V _R = 10 V		13		

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

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.