

FEATURES

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

DESCRIPTION

The **SD200-13-23-242** is a 5.1mm diameter UV-enhanced silicon photodiode packaged with a quartz window glass in a hermetically sealed TO-8 metal can.

APPLICATIONS

- Military
- Industrial
- Medical

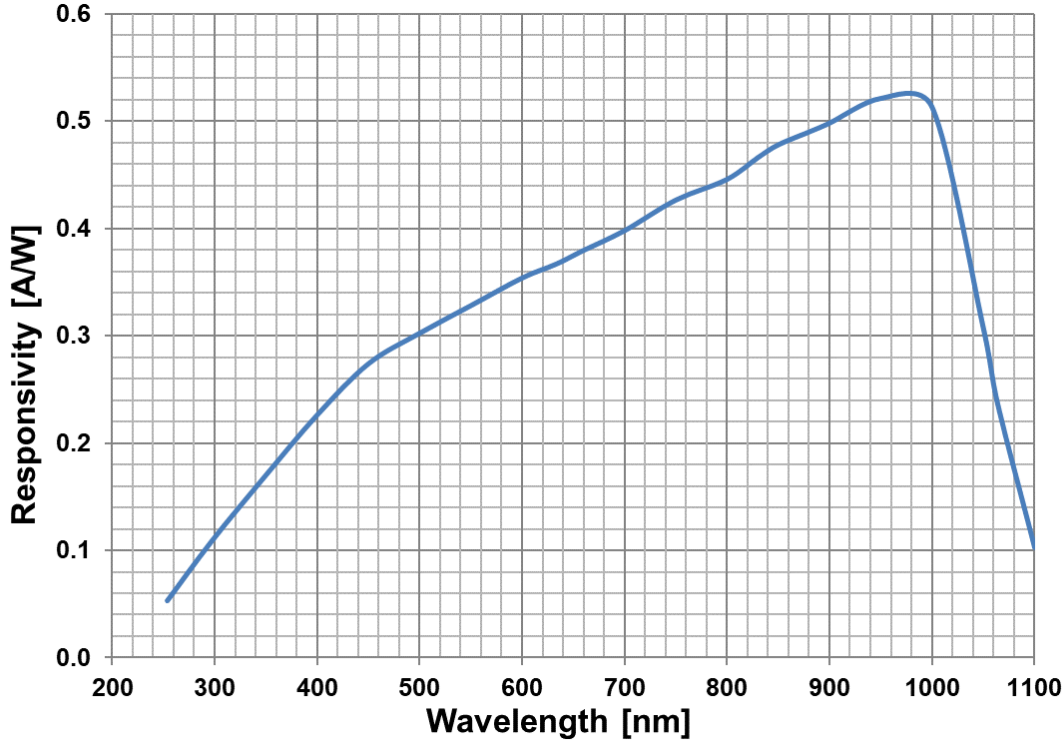
> Absolute Maximum Ratings

Part No.	Wavelength Range [nm]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
SD200-13-23-242	250 to 1100	75	-40 to +125	-55 to +150	TO-8

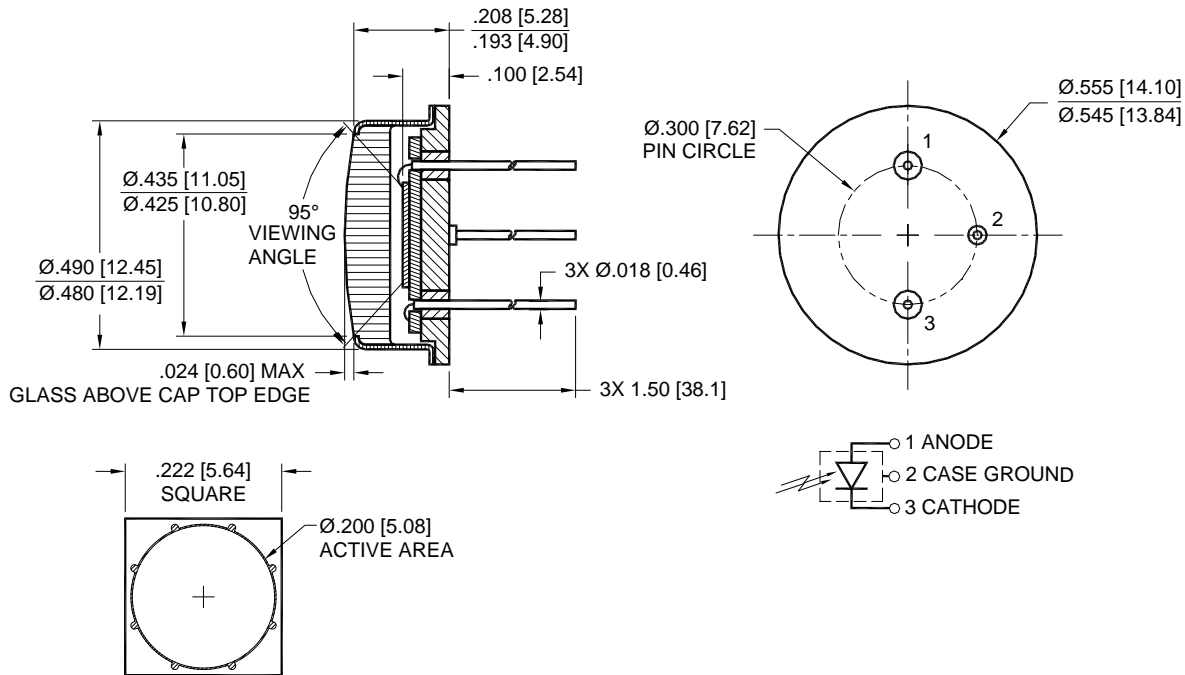
> Electrical and Optical Characteristics

Typical Characteristics per elements (T=23°C unless specified)						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
Dark Current	$V_R = 5\text{ V}$	I_D	-	6	30	nA
Shunt Resistance	$V_R = 10\text{ mV}$	R_{sh}	77	-	-	MΩ
Capacitance	$V_R = 0\text{V}; f = 1\text{ MHz}$	C_J	-	345	-	pF
	$V_R = 5\text{V}; f = 1\text{ MHz}$		-	102	-	
Responsivity	$\lambda = 365\text{nm}, V_R = 0\text{ V}$	R	0.14	0.18	-	A/W
Breakdown Voltage	$I = 10\text{ }\mu\text{A}$	V_{BR}	-	75	-	V
Noise Equivalent Power	$V_R = 0\text{V} @ \lambda = 350\text{nm}$	NEP	-	8.9×10^{-14}	-	W/ $\sqrt{\text{Hz}}$
Response Time	$R_L = 50\text{ }\Omega, V_R = 10\text{V}$	t_r	-	13	-	ns

> Spectral Response



> Package Dimensions are in inches [mm]



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MATERIALS SAFETY

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