SD290-12-22-241





FEATURES

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

DESCRIPTION

The **SD 290-12-22-241** is a blue enhanced silicon PIN photodiode, packaged in a hermetic TO-8 metal package.

APPLICATIONS

- Military
- Medical
- Industrial

> Absolute Maximum Ratings

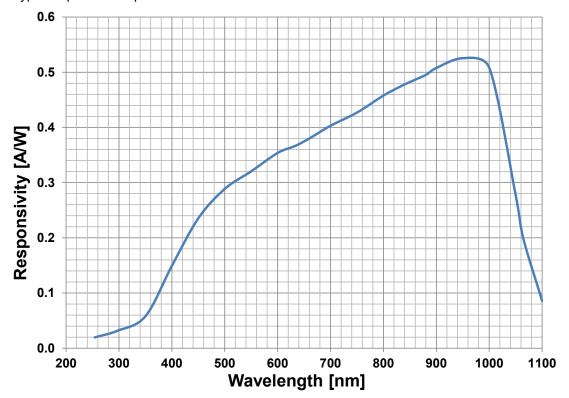
Part No.	Wavelength Range [nm]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
SD290-12-22-241	350 to 1100	25	-40 to +125	-55 to +150	TO-8

> 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 = 5V	ID	-	-	120	nA			
Shunt Resistance	V _R =10mV	R _{SH}	20	-	-	ΜΩ			
Junction Capacitance	$V_R = 0V, f = 1 MHz$	CJ	-	870	-	- pF			
Juliction Capacitance	$V_R = 5V, f = 1 MHz$			255	-				
Responsivity	λ= 450nm, V _R =0V	R	.20	.22	-	A/W			
Breakdown Voltage	Ι = 10 μΑ	V_{BD}	25	-	-	V			
Noise Equivalent Power	V _R = 5V@ λ=450nm	NEP	-	9x10 ⁻¹³	-	W/ √ Hz			
Response Time**	RL = 50Ω, V _R =0V	т_	-	120	-	- nS			
Lesponse Time	$RL = 50\Omega$, $V_R = 10V$	- T _R	-	15	-				

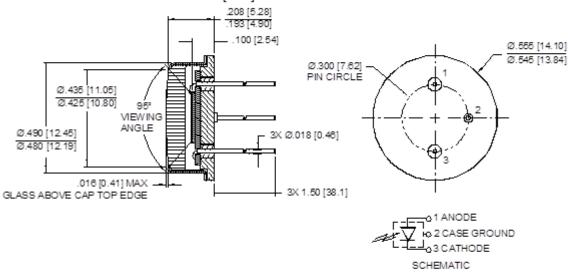
^{**}Response time of 10% to 90% is specified at 660nm wavelength light.

> Typical Spectral Response



> Package Dimensions

PACKAGE DIMENSIONS INCH [mm]



TO-8 PACKAGE

> Soldering Conditions: 260°C 1/16 inch away from case for 3 seconds max.

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MATERIALS SAFETY

This product is free of conflict minerals and meets REACH compliance. Please see website for reports.

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