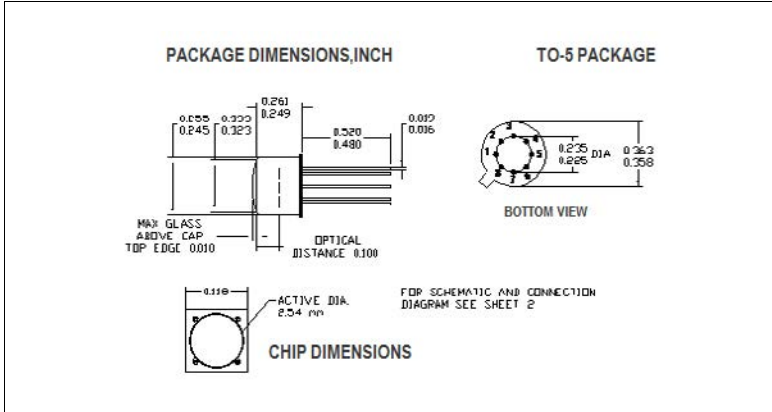


**Detector/Amplifier Hybrids Without Feedback
Resistor UV ENHANCED
SD 100-43-23-232**

Precision – Control – Results



DESCRIPTION

The **SD 100-42-23-232** is a UV enhanced detector/amplifier that combines a silicon photodiode with an opamp without a feedback network, packaged in a hermetic TO-5 metal can package.

FEATURES

- Low Noise
- Red Enhanced
- Custom Feedback
- High Speed

RELIABILITY

This Luna high-reliability device is in principle able to meet military test requirements (Mil-STD-750, Mil-STD-883) after proper screening and group test.

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Instrumentation
- Medical
- Military



T_a = 23°C UNLESS OTHERWISE NOTED

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN	TYPE	MAX	UNITS
Voltage Supplies	±5	±15	±18	V
Input Offset Voltage	-	1	2	mV
Input Voltage Noise@ f=10KHz	-	12	-	nV/√Hz
Input Bias Current	-	15	40	pA
Input Current Noise @ f=10KHz	-	20	30	fA/√Hz
Gain Bandwidth Product	-	18	-	MHz
Supply Current	-	6.5	7	mA
Storage Temperature	-65	-	+125	°C
Operating Temperature	-40	-	-85	°C

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.

REV 01-04-16

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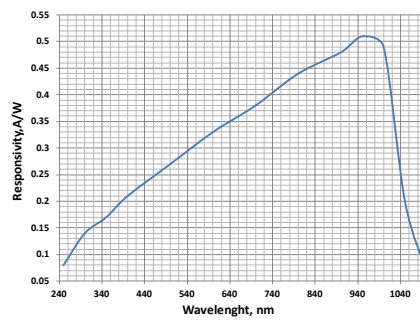
OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current	V _R = 10 V	-	-	10	nA
Shunt Resistance	V _R = 0 mV	300	-	-	MΩ
Junction Capacitance	V _R = 0V; f = 1 MHz	-	87	-	pF
	V _R = 10V; f = 1 MHz	-	18	-	
Spectral Application Range	Spot Scan	250	-	1100	nm
Responsivity	λ = 450nm, V _R = 0 V	-	0.15	-	A/W

TYPICAL PERFORMANCE

SPECTRAL RESPONSE



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