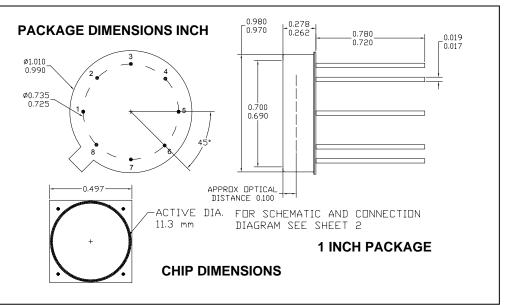


Detector/Amplifier Hybrids Without Feedback Resistor UV ENHANCED SD 444-43-23-262





FEATURES

- Low noise
- UV enhanced
- Custom feedback
- High speed

DESCRIPTION

- The **SD 444-42-23-262** is a UV enhanced detector/amplifier that combines a silicon photodiode with an opamp without a feedback network,
- packaged in a hermetic metal can package.
- packaged in a hermelic metal can package.

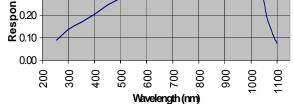
APPLICATIONS

- Instrumentation
- Industrial
- Medical

AMPLIFIER SPECIFICATIONS (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS
Vs	Voltage Supplies	± 5	± 15	± 18	V
V _{io}	Input Offset Voltage		1	2	mV
V _n	Input Voltage Noise @ f = 10KHz		12		nV/√Hz
l _{ib}	Input Bias Current		15	40	pА
l _{io}	Input Offset Current		20	30	pА
I _n	Input Current Noise @ f = 10KHz		20	30	fA/√Hz
GBP	Gain Bandwidth Product		18		MHz
I _S	Supply Current		6.5	7	mA
T _{STG}	Storage Temperature	-65		+125	°C
To	Operating Temperature	-40		+85	°C

SPECTRAL RESPONSE

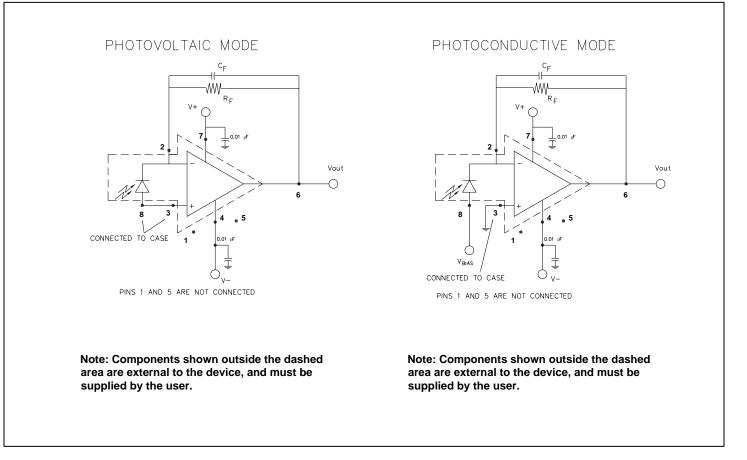


DETECTOR SPECIFICATIONS (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Ι _D	Dark Current	V _R = 10 V			150	nA
R _{SH}	Shunt Resistance	$V_R = 0 V$	15			MΩ
CJ	Junction Capacitance	$V_R = 0 V$, $f = 1 MHz$		1700		рF
		$V_{R} = 10 V, f = 1 MHz$		340		
λ range	Spectral Application Range	Spot Scan	250		1100	nm
R	Responsivity	λ = 365 nm, V _R = 0 V		0.15		

Detector/Amplifier Hybrids Without Feedback Resistor SD 444-43-23-262

SCHEMATIC AND CONNECTION DIAGRAM



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.

Advanced Photonix Inc. 1240 Avenida Acaso, Camarillo CA 93012 • Phone (805) 987-0146 • Fax (805) 484-9935 • www.advancedphotonix.com