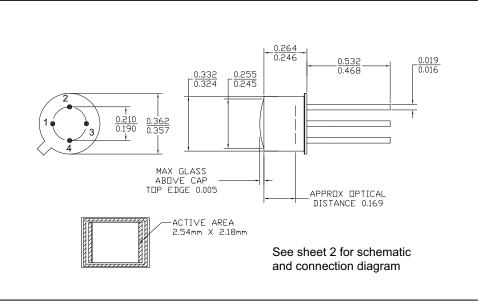


Detector/Amplifier Hybrids With Feedback Resistor SD 112-42-11-221





FEATURES

- · Low noise
- · Red enhanced
- · Feedback circuit
- High speed

DESCRIPTION

The **SD 112-42-11-221** is a detector/amplifier hybrid that combines a silicon photodiode with an opamp with a feedback resistor and capacitor, available in a hermetic TO-5 metal can package.

APPLICATIONS

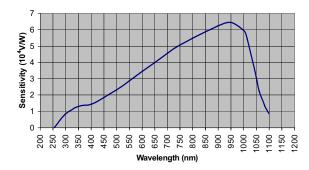
- Instrumentation
- Industrial
- Medical

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

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS
V _s	Voltage Supplies	± 5		± 15	V
Р	Power Dissipation		360		mW
T _{STG}	Storage Temperature	-25		+100	°C
Ts	Soldering Temperature*		+240		°C

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

SPECTRAL SENSITIVITY



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C. V_s = ± 12V UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
f _{3db}	Cutoff Frequency		500	750		KHz
Gain	Transimpedance Gain			0.1		$\mathbf{M}\Omega$
S	Sensitivity	λ = 940 nm		6.3x10 ⁴		V/W
V _{os}	Output Offset Voltage				± 1	mV
I_s	Power Supply Current			6.2	7	mA
V_n	Broadband Noise	f= 10Hz to cutoff			60	uV_{rms}

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.



SCHEMATIC AND CONNECTION DIAGRAM

