

<p>61099 PHOTODIODE-AMPLIFIER HYBRID</p>	<p style="text-align: center;">Mii OPTOELECTRONIC PRODUCTS DIVISION</p>
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<p>Features:</p> <ul style="list-style-type: none"> • Hermetically sealed • 4 Pin TO-5 Package • High sensitivity • Low noise/Grounded Case • Feedback Circuit Built In 	<p>Applications:</p> <ul style="list-style-type: none"> • Light Detection/Light Measurement • Guidance Systems • Industrial Control • Pollution Monitoring • Bar Code Readers • Medical
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DESCRIPTION

The **61099** combines a large-area photodiode with a low-noise operational amplifier in a transimpedance connection. The feed back resistor and a shunt capacitor are included within the case, which is grounded for shielding. The sensing area is one square centimeter.

ABSOLUTE MAXIMUM RATINGS

Storage Temperature.....	-30°C to + 100°C
Operating Temperature.....	0°C to + 70°C
Supply Voltage.....	+18V
Lead Soldering Temperature (1/16 inch from case – 5 seconds).....	240°C

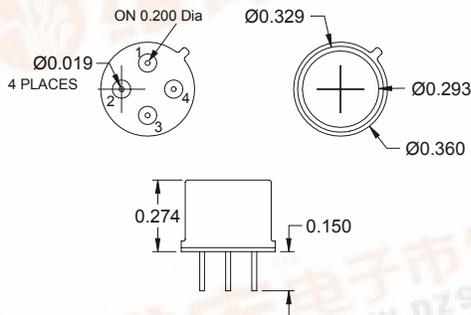
Notes:

(1) Derate linearly @ 1.33 mW/°C for T_A > 25°C.

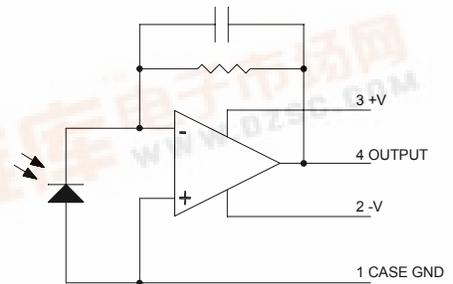
Package Dimensions

Schematic Diagram

TOP VIEW



DIMINIONS ARE IN INCHES
DIMINIONS ARE NOMINAL



ELECTRICAL CHARACTERISTICS

At 25°C unless otherwise specified.

PARAMETER	MIN	TYP	MAX	UNITS
Responsivity $\lambda = 254\text{nm}$ $\lambda = 340\text{nm}$ $\lambda = 900\text{nm}$		50 60 225		$\text{V}/\mu\text{W}$ $\text{V}/\mu\text{W}$ $\text{V}/\mu\text{W}$
Dark Offset Voltage			± 1.0	MV
Rise Time			5.0	Msec
High Frequency Noise (0.1 to 10 kHz)			0.75	MVrms
Ambient Light Offset Voltage	+12			Volts