61099 **PHOTODIODE-AMPLIFIER HYBRID**	***Mii*** **OPTOELECTRONIC PRODUCTS DIVISION**

Features:	**Applications:**
• Hermetically sealed • 4 Pin TO-5 Package • High sensitivity • Low noise/Grounded Case • Feedback Circuit Built In	• Light Detection/Light Measurement • Guidance Systems • Industrial Control • Pollution Monitoring • Bar Code Readers • Medical

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

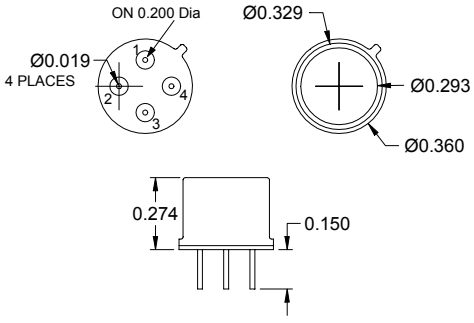
Storage Temperature	-30°C to + 100°C
Operating Temperature	0°C to + 70°C
Supply Voltage	±18V
Lead Soldering Temperature (1/16 inch from case – 5 seconds)	240°C

Notes:

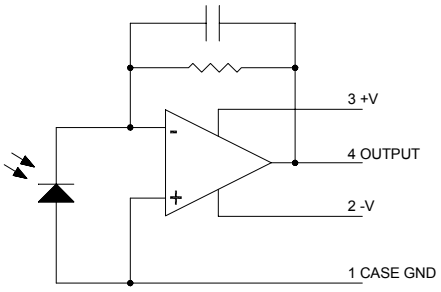
(1) Derate linearly @ 1.33 mW/°C for T_A > 25°C.

Package Dimensions **Schematic Diagram**

TOP VIEW



DIMINSIONS ARE IN INCHES
DIMINSIONS ARE NOMINAL



ELECTRICAL CHARACTERISTICS

At 25°C unless otherwise specified.

PARAMETER	MIN	TYP	MAX	UNITS
Responsivity λ = 254nm λ = 340nm λ = 900nm		50 60 225		V/μW V/μW V/μW
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