61060	**PHOTODIODE "COAXIAL"**	MICROPAC OPTOELECTRONIC PRODUCTS DIVISION

06/03/03

Features:	**Applications:**
• Hermetically sealed • Fast switching speed • Small package • Suitable for array mounting • Available with wide or narrow angle lens.	• Incremental encoding • Reflective sensors • Position sensors • Level sensors

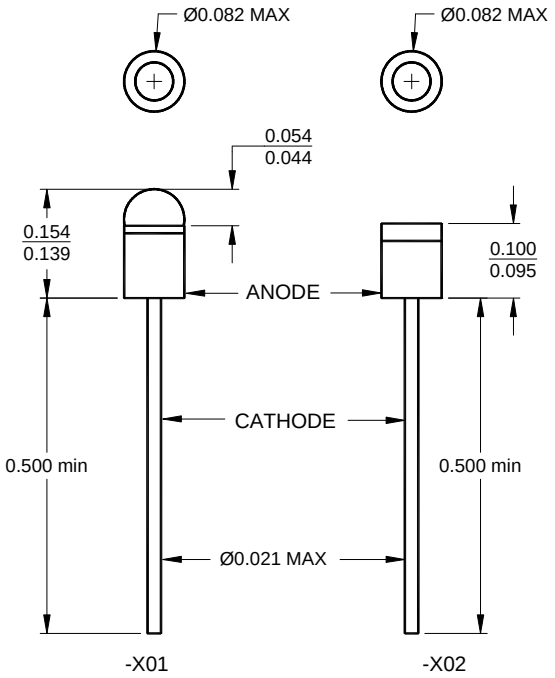
DESCRIPTION

The ***61060*** is a Silicon Photodiode in a unique 0.080 diameter coaxial package designed to be mounted in arrays. Fast operating speed makes this device the best option in applications where speed consideration predominate. It is available with a wide angle flat lens or narrow angle domed lens. Available custom binned to customer specifications or screened to MIL-PRF-19500.

ABSOLUTE MAXIMUM RATINGS

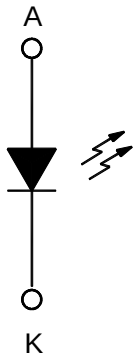
Storage Temperature ..... -65°C to +150°C
Operating Temperature (See part selection guide for actual operating temperature) ..... -55°C to +125°C
Reverse Voltage 50V
Power Dissipation (Derate at the rate of 1.67 mW/°C above 25°C) 75mW
Lead Soldering Temperature (10 seconds, 1/16" from case) ..... 240°C

Package Dimensions



DIMENSIONS ARE IN INCHES

Schematic Diagram



ELECTRICAL CHARACTERISTICS

T_A = 25°C unless otherwise specified.

PARAMETER		SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS	NOTE
Light Current	61060-XXX	I_L	12			µA	V_R = 10.0V, H = 20mW/cm^2	1
Dark Current	61060-XXX	I_D			25	nA	V_R = 10V, H = 0	1
Reverse Breakdown Voltage	61060-XXX	V_{BR}	50			V	I_R = 5µA, H = 0	
Rise Time	61060-XXX	t_r		100		ns	I_L = 5.0 µA, R_L = 100 KΩ	
Angular Response	61060-X01 61060-X02	θ		12 30		degrees		2

NOTES:

1. Irradiance (H) in mW/cm^2 from tungsten source at a color temperature of 2870K.
2. The angle between incidence for peak response and incidence for 50% of peak response.

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION	I_L Range
61060-001	Domed lens, commercial	12 µA (min)
61060-101	Domed lens, screened	12 µA (min)
61060-002	Flat lens, commercial	12 µA (min)
61060-102	Flat lens, screened	12 µA (min)