

61063**PHOTODIODE "PILL PACK"****Mii****OPTOELECTRONIC PRODUCTS
DIVISION****Features:**

- Hermetically sealed
- High sensitivity
- Small package
- Suitable for high-density pc board mounting
- Spectrally matched to the 62000 series LED.

Applications:

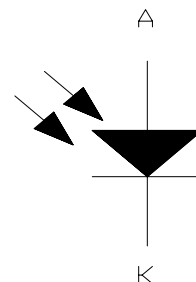
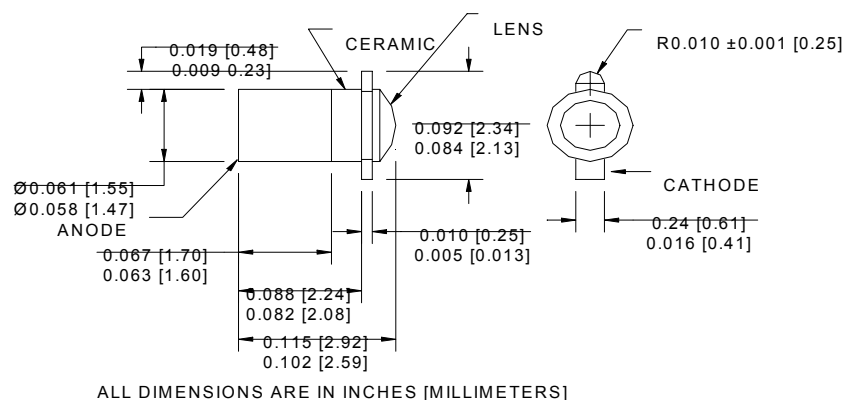
- Incremental encoding
- Reflective sensors
- Position sensors
- Level sensors

DESCRIPTION

The **61063** is a Silicon Photodiode in a package designed to be mounted in a double-clad printed circuit board. It is available in a range of sensitivities and is lensed for minimum response to stray light. High sensitivity, low dark current leakage, and low saturation voltage make this device ideal for interfacing with TTL circuits. Available in 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)..... -65°C to +125°C
 Reverse Voltage 30V
 Power Dissipation (Derate at the rate of 1.67 mW/°C above 25°C) 150mW
 Lead Soldering Temperature (3 minutes) 240°C

Package Dimensions**Schematic Diagram**

ELECTRICAL CHARACTERISTICST_A = 25°C unless otherwise specified.

PARAMETER		SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS	NOTE
Light Current	61063-X01	I _L	6.0	15		μA	V _R = 5.0V, H = 20mW/cm ²	1
Dark Current	61063-XXX	I _D			250	nA	V _{CE} = 5V, H = 0	1
Reverse Breakdown Voltage	61063-XXX	V _{BR}	15			V	I _R = 100μA, H = 0	
Rise Time	61063-X01	t _r		300		nS	V _R = 5V	
Fall Time	61063-X01	t _f		300		nS	V _R = 5V	
Angular Response	61063-X01	θ		24		degrees		2

NOTES:

1. Irradiance in mW/cm² from a tungsten source at a color temperature of 2870K.
2. The angle between incidence for peak response and incidence for 50% of peak response.

RECOMMENDED OPERATING CONDITIONS:

PARAMETER	SYMBOL	MIN	MAX	UNITS
Reverse Voltage	V _R	5	10	V
Irradiance (H)	H	15	25	mW/cm ²

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION	I _L Range
61063-001	Silicon Photodiode in pill package, commercial version	+6μA
61063-101	Silicon Photodiode in pill package (-55° to +100°C) with 100% screening	+6μA