62120	**LIGHT EMITTING DIODE**	MICROPAC OPTOELECTRONIC PRODUCTS DIVISION

09/22/03

Features:	**Applications:**
• Hermetically sealed • High output, 880 nm • Small package	• Touch screen arrays • Reflective sensors • Position sensors • Level sensors

DESCRIPTION

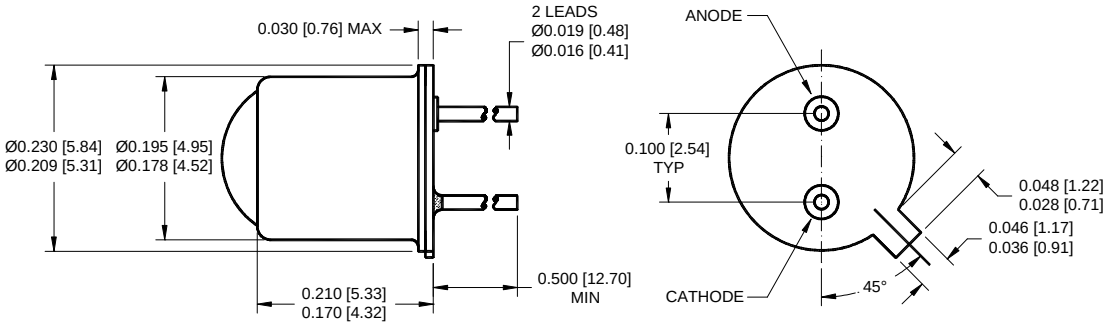
The ***62120*** is an Infrared Light Emitting Diode in a dome lensed TO-46 package and is spectrally matched to silicon phototransistors and photodarlingtons. Available as commercial or screened levels.

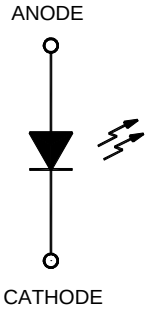
ABSOLUTE MAXIMUM RATINGS **25°C FREE AIR TEMPERATURE UNLESS NOTED**

Reverse Voltage..... 2Vdc
Forward Current-Continuous (Note 1) 120mA
Storage Temperature.....-55°C to +150°C
Operating Temperature .....-55°C to +125°C
Soldering Temperature (10 seconds, 1/16" from case) ..... 240°C

NOTES:
1. Derate linearly to 125°C case temperature at the rate of 1.2 mA/°C.

Package Dimensions **Schematic Diagram**





THE ANODE IS IN ELECTRICAL CONTACT WITH THE CASE.

ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]

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ELECTRICAL CHARACTERISTICS

T_A = 25°C unless otherwise specified.

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS	NOTE
Output Power	P_O	10			mW	I_F = 50mA	
Forward Voltage	V_F			1.45	V	I_F = 50mA	
Reverse Breakdown Voltage	B_{VR}	6			V	I_R = 10µA	
Radiation Rise Time	t_R		0.7		µs		
Peak Wavelength	λ_P		880		nm	I_F = 100mA	
Beam Angle	θ		20		degrees		1
Forward Max Continuous Current	$I_{F(MAX)}$			120	mA	25°C Case	

NOTES:

1. Angle between half-intensity points.

RECOMMENDED OPERATING CONDITIONS:

PARAMETER	SYMBOL	MIN	MAX	UNITS
Forward Current	I_F		50	mA

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION
62120-001	Commercial
62120-101	Screened