Texas Photonics, Inc.

TXPI 1207
1050 nm Light Emitting Diode
Surface Mount 1206 Style

DESCRIPTION

This is a 1050 nm Infrared 1206 package surface mount LED optimized for applications requiring a small, Infrared LED.

FEATURES

- ❒ 1050 nm Infrared emission
- ❒ 0.3 mw typical Output Power
- ❒ 60 Degree Half angle of light emission
- ❒ Low cost 1206 surface mount package

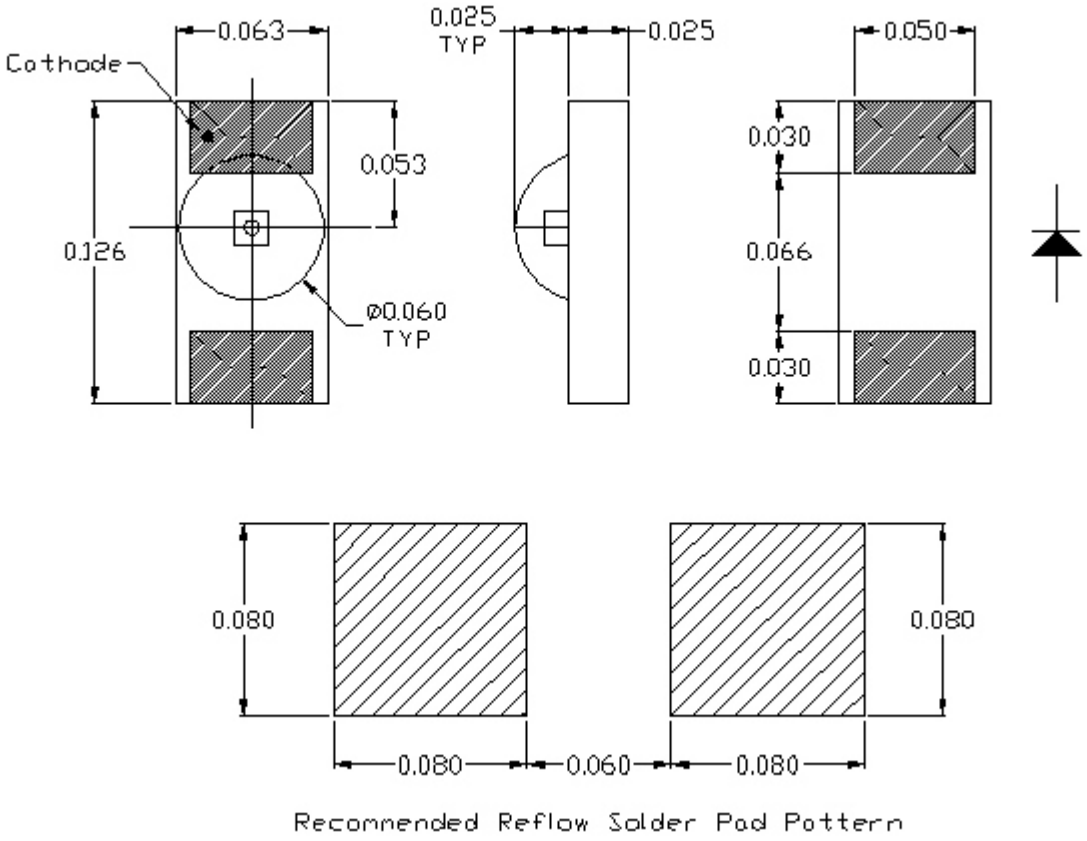
ABSOLUTE MAXIMUM RATINGS

- ❒ Storage temperature..... -550°C to +100°C
- ❒ Case operating temperature .... -40°C to +85°C
- ❒ Lead solder temperature..... 260°C, 10 seconds
- ❒ Continuous forward current..... 100 mA
- ❒ Reverse Voltage..... 3 Volts

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP	MAX	UNIT
Forward Voltage	If = 100 mA	V_f		1.2	2.0	Volts
Reverse Voltage	Ir = 10 µA	Vr	3.0			Volts
Half Angle at Half Power		$\theta_{1/2}$		60		DEG
Capacitance	Vr = 0 V, f = 1 MHz	C		70		pF
Total Optical Power	If = 100 mA	P_{out}	0.1	0.3		mW
Peak Wavelength	If = 100 mA	λ_p	1020	1050	1080	nm
Spectral Bandwidth	If = 100 mA	$\Delta\lambda$		145		nm
Electrical Bandwidth	If = 100 mA	BWE		85		MHz
Response Time	10%-90%, 1 V Prebias If = 100 mA	t_r t_f		20 20		nsec nsec

ELECTRO-OPTICAL CHARACTERISTICS (Case T = 25°C)

OUTLINE DIMENSIONS



Tolerances are +/-0.005 inches, except as noted

Pinout

1. Cathode 2. Anode