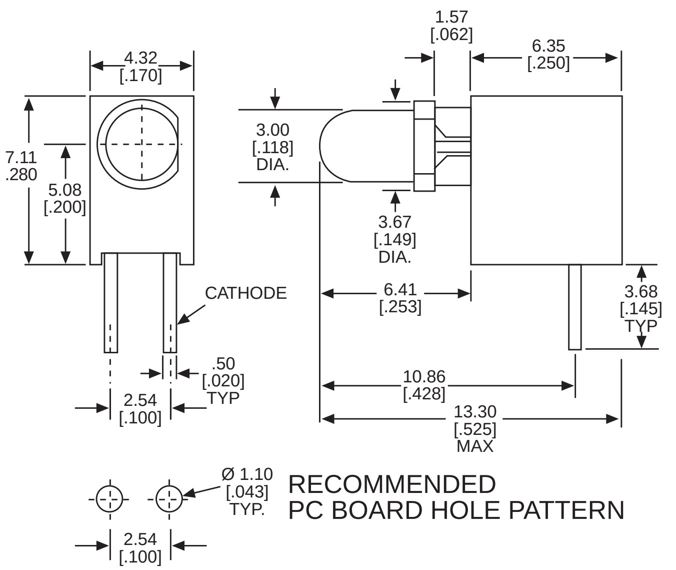
3mm
Infrared Emitter

Dialight

551-7110



Dimensions in mm [inches]

Features

- Near Infrared
- Long Term Stability
- Gallium Aluminum Arsinide Material
- 40° Beam Width
- Blue Tinted Lens

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Power Dissipation	200 mW
Forward Current	100 mA
Surge Current (≤ 10µs)	2.5 A
Reverse Voltage	5 V
Junction Temperature	100°C
Storage Temperature	–55° to +100°C
Operating Temperature	–55° to +100°C

OPERATING CHARACTERISTICS (T_A=25°C)

LED Characteristics	Value	Units	Test Conditions
Peak Wavelength	880 ±20	nm	I_F = 100 mA
Spectral Bandwidth	80	nm	I_F = 100 mA
Full Angle ($2\Theta\ ^1/_2$)	40°	deg	
Switching Times (10% to 90% & 90% to 10%)	.6/.5	µsec	I_F = 100 mA
Capacitance (V_R=0 V, f = 1 MHz)	25	pF	
Forward Voltage (t_p = 20 msec)	1.5 typ, 1.8 max	V	I_F = 100 mA
Forward Voltage (t_p = 100 µsec)	3 typ, 3.8 max	V	I_F = 1A
Reverse Current	.01 typ, 1 max	µA	V_R = 5V
Radiant Intensity (tp=20 ms) (Steady State)	20 min, 40 max	mW/sr	I_E = 100 mA
Radiant Intensity (tp = 100 µs) (Pulsed)	270 typ	mW/sr	I_E = 1 A

Solder Adherance per MIL-STD-202E, Method 208C

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