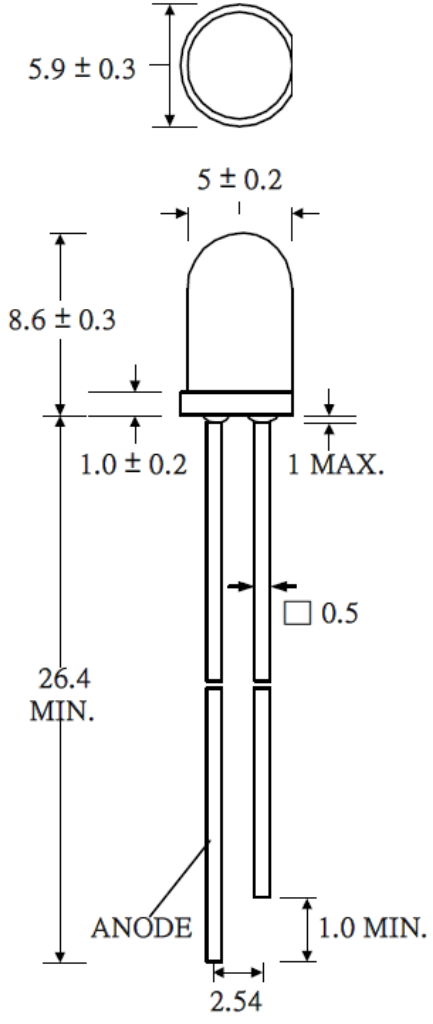


SPECIFICATIONS **CL50IR940C-20**
OUTLINES DIMENSIONS
DESCRIPTION

- Round Type
- 5mm Diameter
- Lens Color: Water Clear
- With Flange
- Solder leads without standoff

FEATURES

- Infrared Emitting Diode
- Technology: GaAIAs/GaAs
- Peak Wavelength $\lambda_p = 940\text{nm}$
- Viewing Angle: 20°



Notes:
 1. All Dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL50IR940C-20	AlGaAs	Infrared	Water Clear	20°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	160	mW
Pulse Current Forward Current	IFP	1	A
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-30~+80	°C
Storage Temperature Range	TSTG	-40~+100	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 280 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

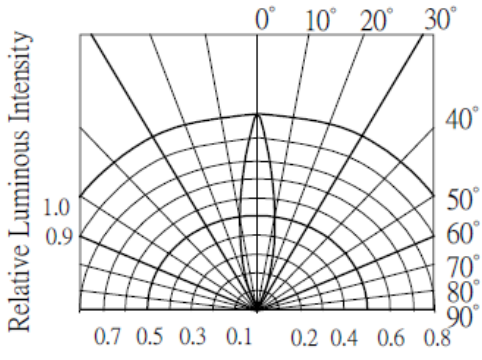
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Radiant Intensity	IE	IF = 50mA	26	40	-	mW/ Sr
Forward Voltage	VF	IF = 50mA	-	1.3	1.6	V
Reverse Leakage Current	IR	VR = 5V	-	-	100	µA
Viewing Angle	2θ1/2	IF = 20mA	-	20	-	deg
Peak Wavelength	λP	IF = 20mA	-	940	-	nm

*Tolerance of viewing angle: -10 / +5 deg.

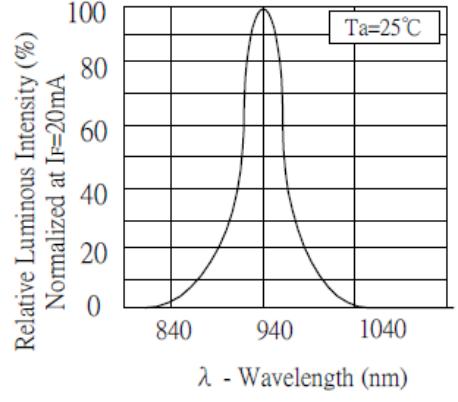


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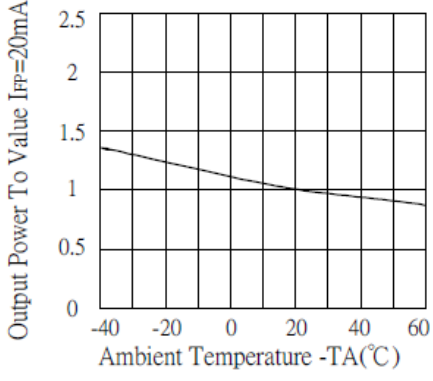
OPTICAL CHARACTERISTIC CURVES



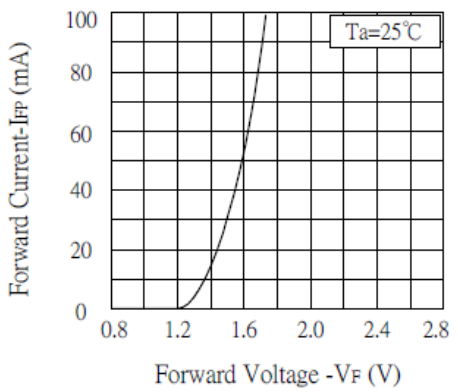
RADIATION DIAGRAM



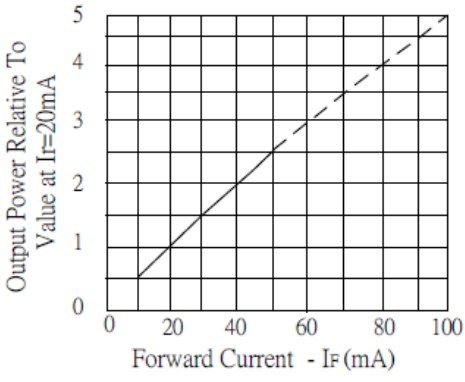
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE RADIANT INTENSITY Vs. FORWARD CURRENT



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