

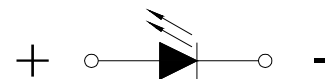
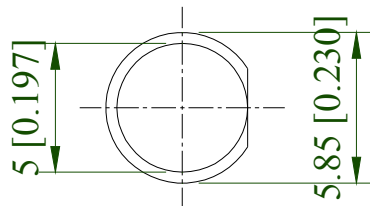
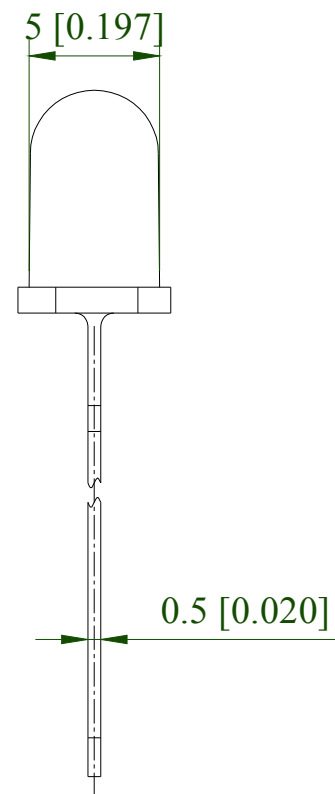
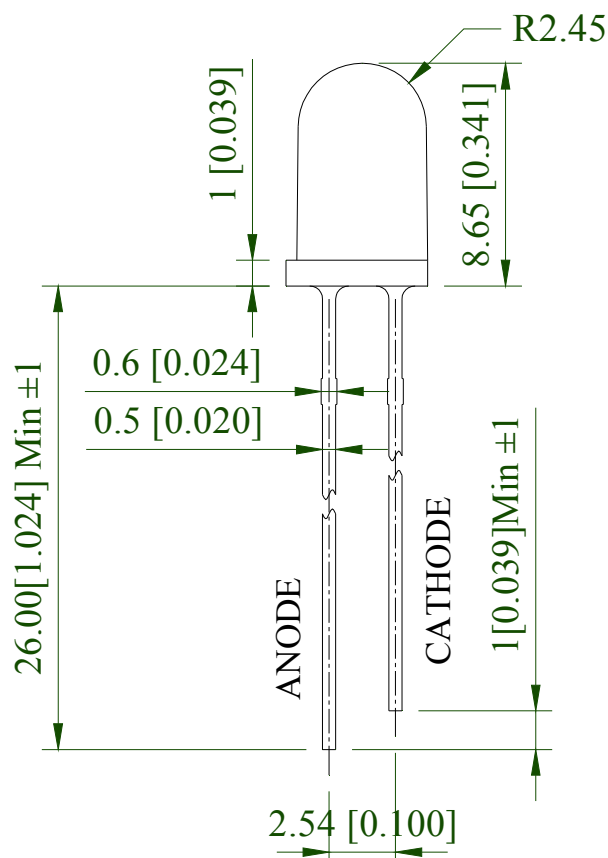
Features:

- Low power consumption.
- General purpose leads.
- High efficiency.
- Versatile mounting on p.c. board or panel.
- I.C. compatible/low current requirement.

Applications:

- Message panels.
- Optical indicators.
- Backlighting.
- Marker lights.
- Home appliance.

Part No.	Emitting Color	Lens Color(LED)
RND 135-00179	Cool White	Water Clear

**Polarity**

Absolute Maximum Ratings at Ta=25°C

Parameters	Symbol	Max.	Unit
Power Dissipation	P _d	85	mW
Peak Forward Current ^(a)	I _{FP}	100	mA
DC Forward Current ^(b)	I _F	25	mA
Reverse Voltage ^(c)	V _R	5	V
Operating Temperature Range	T _{opr}	-40°C to +80°C	
Storage Temperature Range	T _{stg}	-40°C to +85°C	
Soldering Temperature	T _{slid}	260°C for 5 Seconds	

Notes:

- Derate linearly as shown in derating curve.
- Duty Factor = 10%, Frequency = 1 kHz.
- Reverse voltage (VR) condition is applied for IR test only. The device is not designed for reverse operation.

Electrical Optical Characteristics at Ta=25°C

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity ^(a)	I _v	14000	23000	---	mcd	IF=20mA
Viewing Angle ^(b)	2θ _{1/2}	---	15	---	deg.	IF=20mA
Chromaticity Coordinates ^(c)	x	---	0.28	---		IF=20mA
	y	---	0.28	---		IF=20mA
Color Temperature	CCT	---	11000	---	K	IF=20mA
Color Rendering Index	CRI	---	80	---	Ra	IF=20mA
Forward Voltage	VF	2.60	3.00	3.40	V	IF=20mA
Reverse Current ^(d)	IR	---	---	10	μA	VR=5V

Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. The I_v guarantee must be included with ±15% testing tolerance.
- 2θ_{1/2} is the o -axis angle where the luminous intensity is 1/2 the peak intensity.
- The chromaticity coordinates (x, y) is derived from the 1931 CIE chromaticity diagram.
- Reverse current (IR) condition is applied for VR test only. The device is not designed for reverse operation.

Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

