

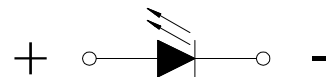
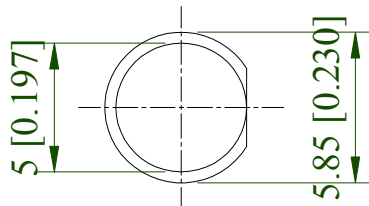
Features:

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

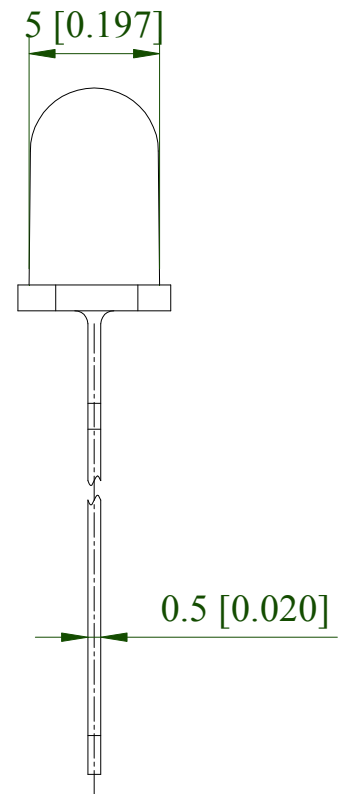
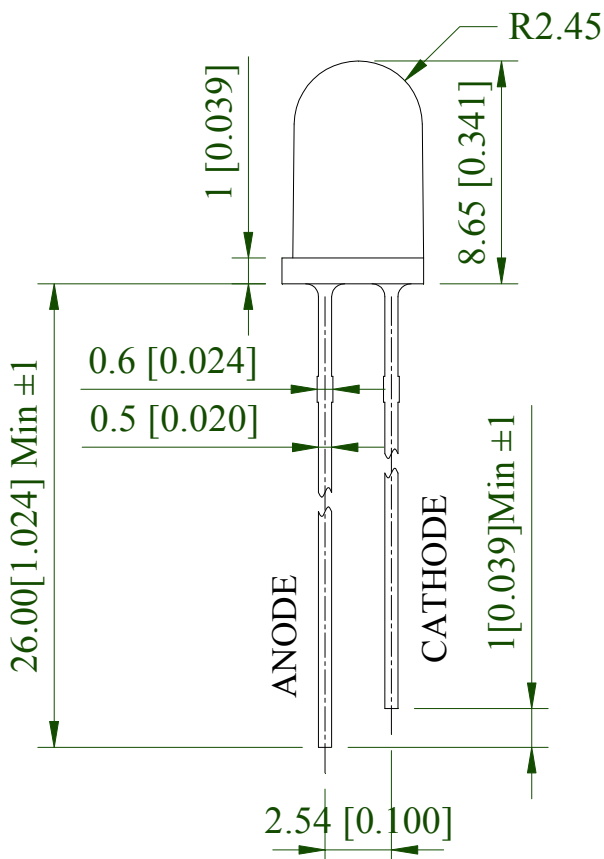
Applications:

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

Part No.	Emitting Color	Lens Color(LED)
RND 135-00135	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_{sld}	260°C for 5 Seconds	

Notes:

- Derate linearly as shown in derating curve.
- Duty Factor = 10%, Frequency = 1 kHz.
- Reverse voltage (V_R) 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	6500	11000	---	mcd	IF=20mA
Viewing Angle ^(b)	$2\theta_{1/2}$	---	45	---	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	2.6	3.0	3.4	V	IF=20mA
Reverse Current ^(d)	IR	---	---	10	μ A	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 $\pm 15\%$ testing tolerance.
- $2\theta_{1/2}$ is the θ -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)

