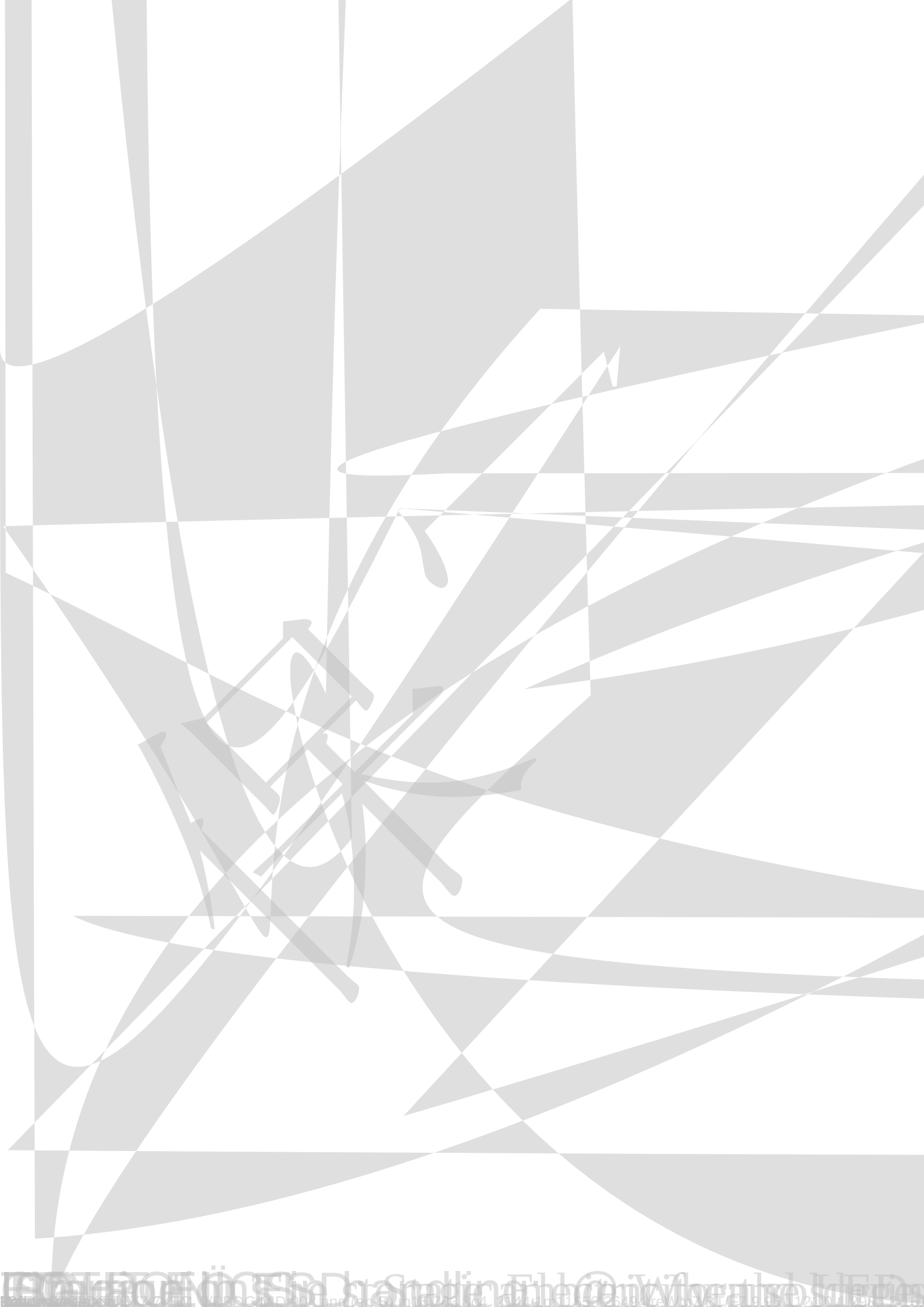






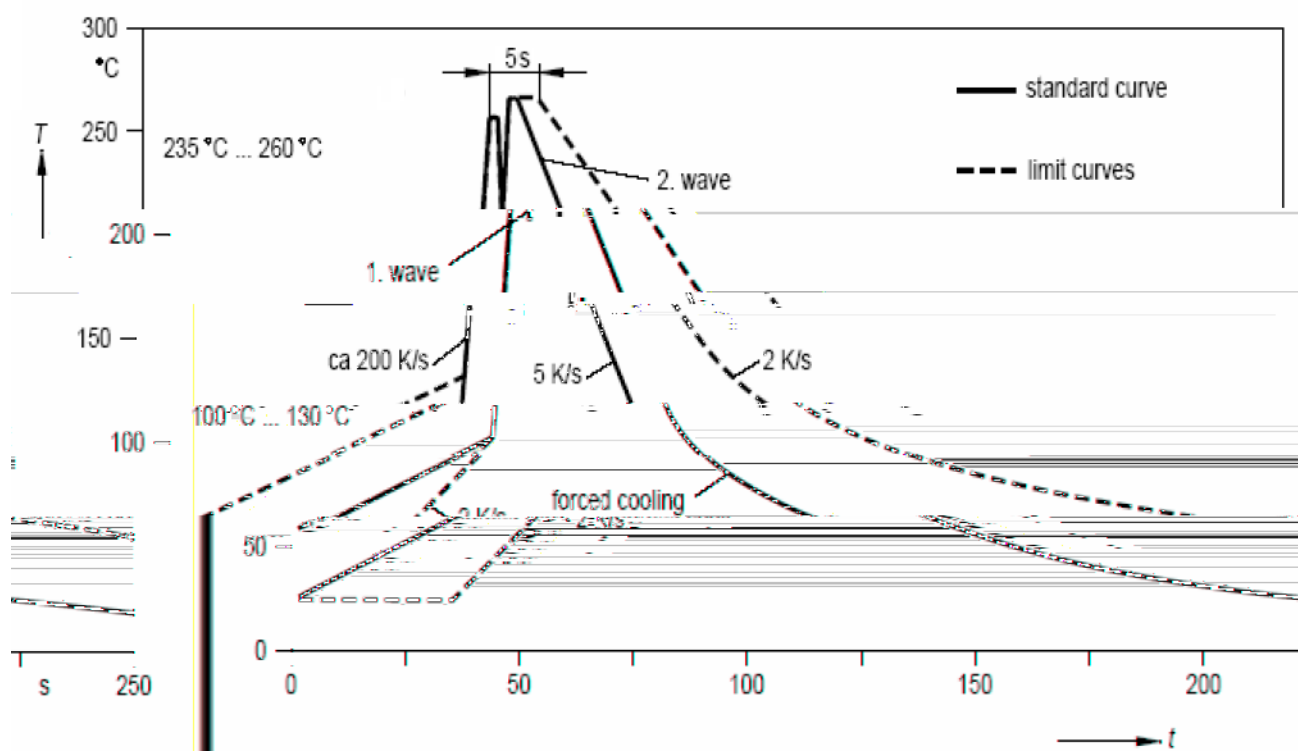
Electrical Optical Characteristics at Ta=25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Range of Spectral Bandwidth	$\lambda_{0.5}$	840	---	1100	nm	---
Wavelength of Peak Sensitivity	λ_P	---	940	---		---
Collector- Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=0.1mA$ $E_e=0mW/cm^2$
Emitter-Collector Breakdown Voltage	$V_{(BR)ECO}$	5	-	-	V	$I_R=0.1mA$ $E_e=0 mW/cm^2$
Collector- Emitter Saturation Voltage	$V_{CE(SAT)}$	-	-	0.5	V	$I_C=0.1 mA$ $E_e=1.0mW/cm^2$
Rise Time	T_r	-	15	-	μS	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Fall Time	T_f	-	15	-	μS	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Viewing Angle	$2\theta_{1/2}$	---	80	---	Deg.	
Collector Dark Current	I_{CEO}	-	-	100	nA	$V_{CE}=10V$ $E_e=0 mW/cm^2$
On State Collector Current	$I_{C(ON)}$	---	6.5	---	mA	$V_{CE}=5V$ $E_e=1.0mW/cm^2$ $\lambda_P=940nm$

Note:

1. $2\theta_{1/2}$ is the off-axis angle at which the $I_{C(ON)}$ is half the axial $I_{C(ON)}$.
2. The $I_{C(ON)}$ guarantee should be added $\pm 15\%$ tolerance.

Recommended Wave Soldering Profile





LEAD FORMING PROCEDURES

1. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend (Fig.5 and Fig.6).

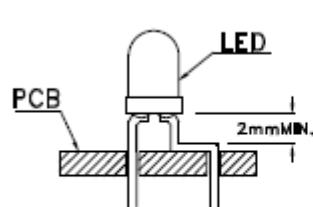


Fig. 5

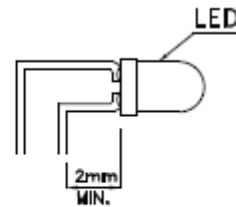


Fig. 6

2. Lead forming or bending must be performed before soldering, never during or after soldering.
3. Do not stress the LED lens during lead-forming in order to fractures in the lens epoxy and damage the internal structures.
4. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB (Fig.7).
5. Do not bend the leads more than twice (Fig.8).

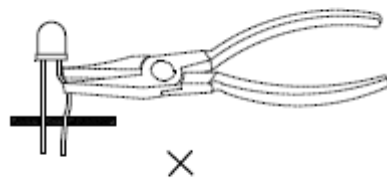


Fig. 7

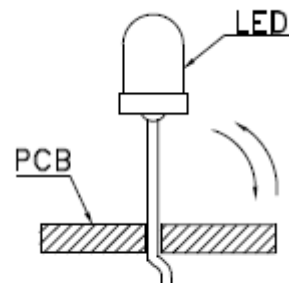


Fig. 8

6. After soldering or other high-temperature assembly, allow the LED to cool down to 50 °C before applying outside force (Fig.9). In general, avoid placing excess force on the LED to avoid damage. For any questions please consult with LIGHT representative for proper handling procedures.

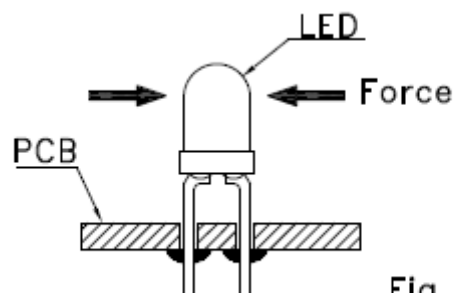
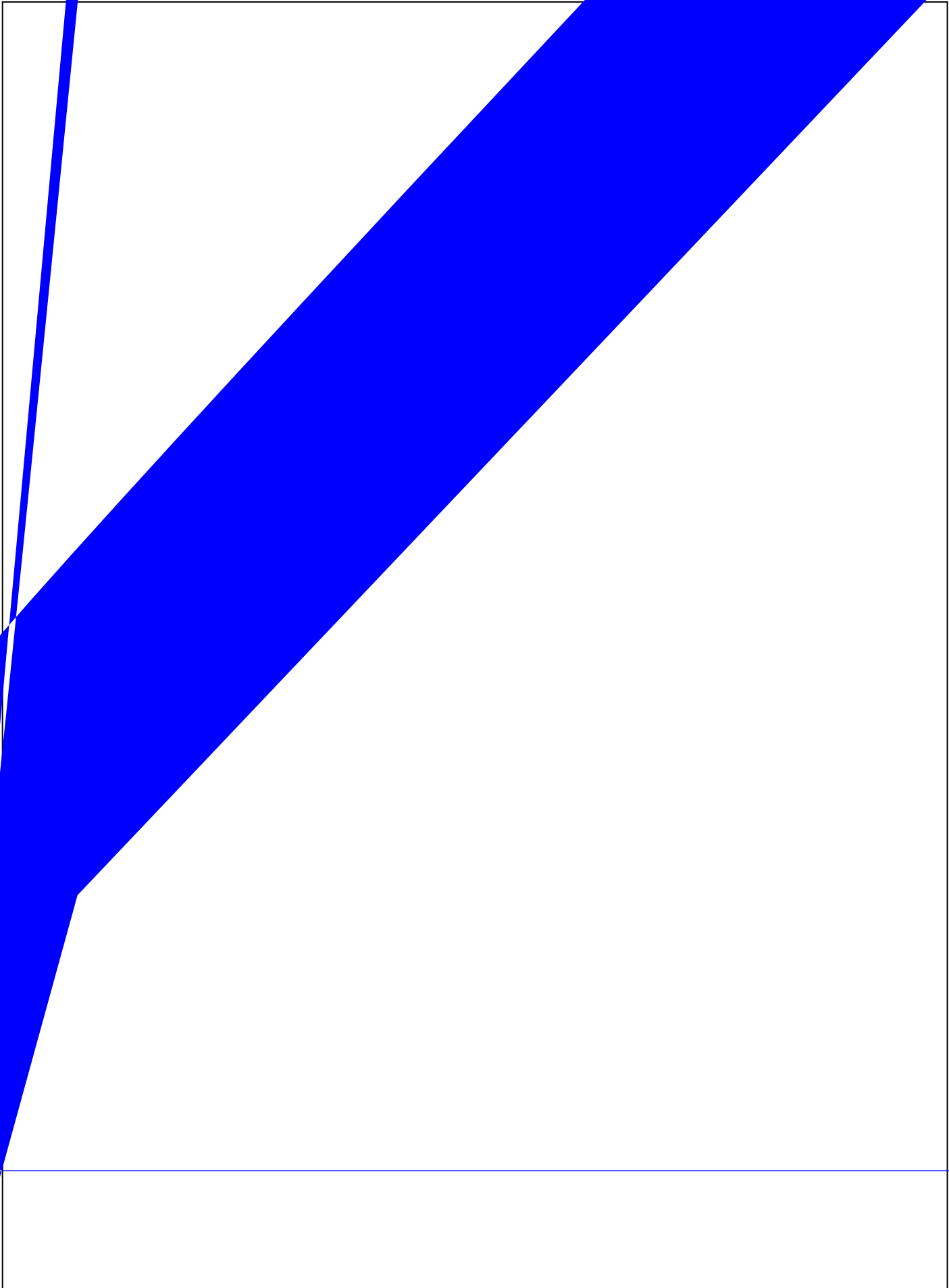


Fig. 9

LIGHT



Part No.	LG-03PT4D94H-387A	Page	8 of 9
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