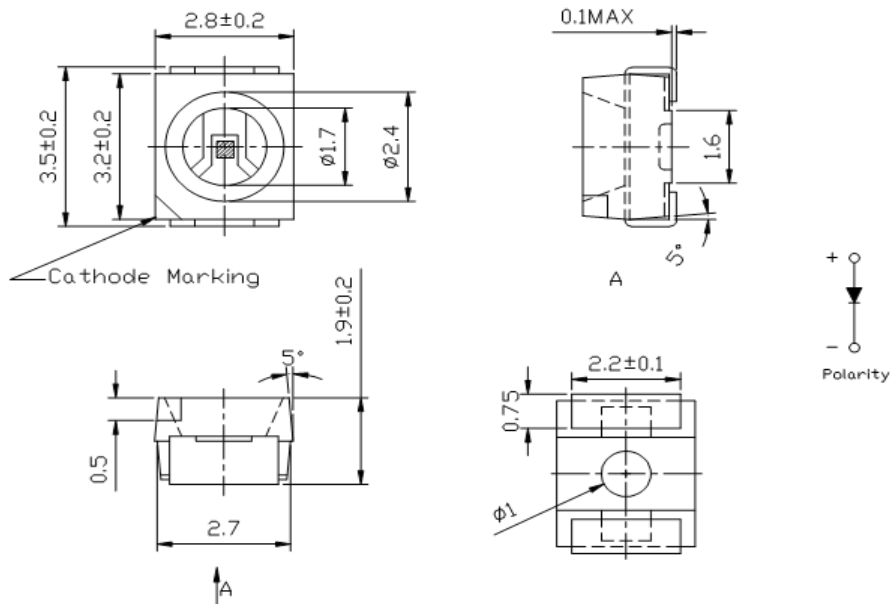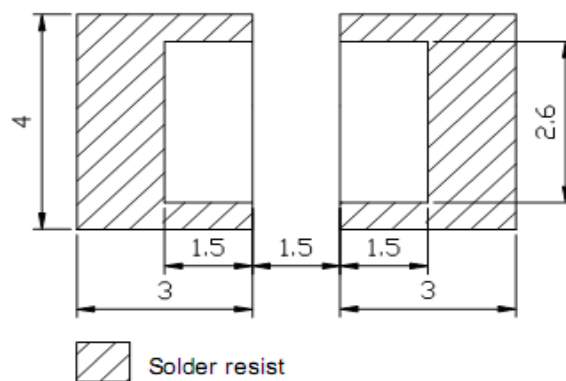**EDCON COMPONENTS**
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Applications

- Interior automotive lighting
- Optical indicators
- Communication Products
- Backlighting
- Toys

Technical Drawing

Recommended Soldering Pattern

Solder resist

Notes :

All dimensions in mm tolerance is
± 0.1mm unless otherwise noted.

		PLCC2 *White*		
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	---	Unit
Power Dissipation	P_D	100	mW
DC Forward Current	I_F	25	mA
Plused Forward Current	I_{FP}*	100	mA
Reverse Voltage	V_R	---	V
Operating Temperature	T_{OP}	-40 to 75	°C
Storage Temperature	T_{ST}	-40 to 100	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=5mA   Ta=25°C

Ermitting Color		White	
Material		---	
Forward Voltage	typ.	2.8	V_F
	max.	3.2	V_F
Wavelength typ.	λD	x = 0.31 y = 0.32	nm
	λP	---	nm
	Δλ	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	1373	mcd
	typ.	2000	mcd
Reverse Current	max.	50	μA
Viewing Angle	2Θ1/2	120	

* Per NIST standards

Ranks Combination

I_F=20mA

Rank	T1	T2	U1	
Luminous Intensity	1373~1716	1716~2145	2145~2681	mcd

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Directive Characteristics
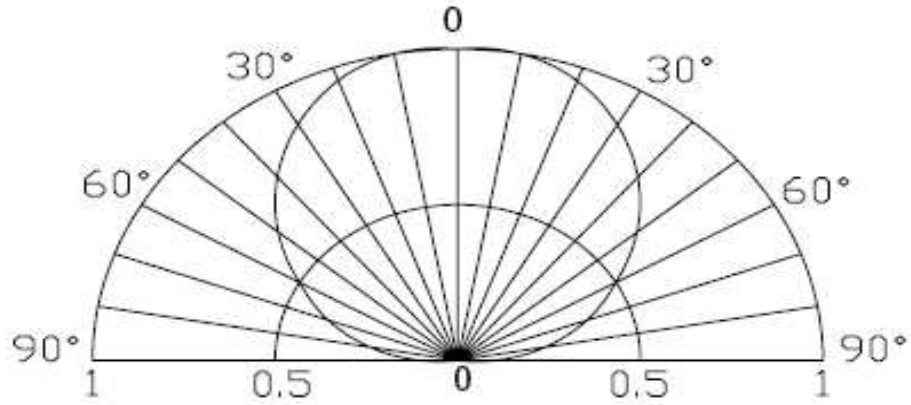
	PLCC2	
	White	
Part No.:	**M11A1047**	
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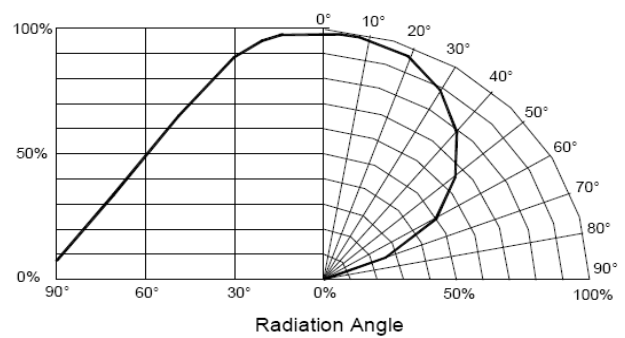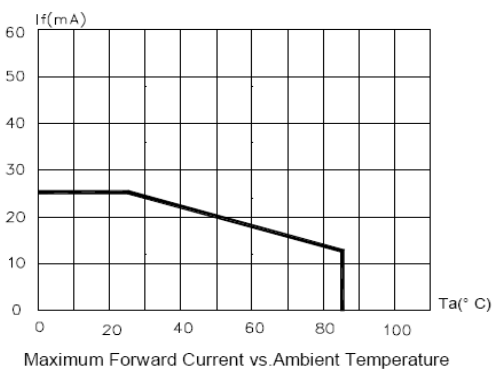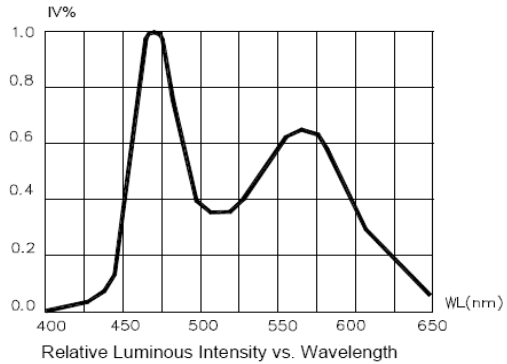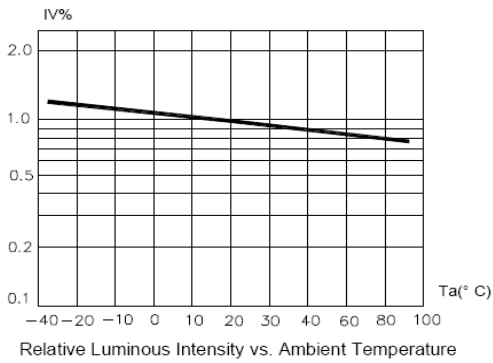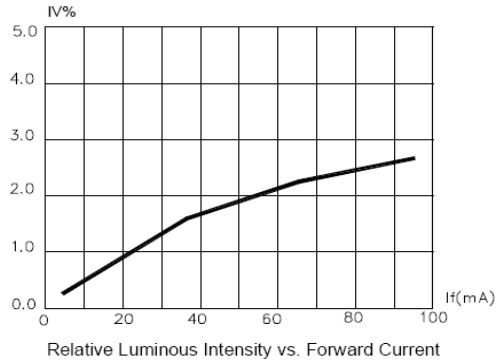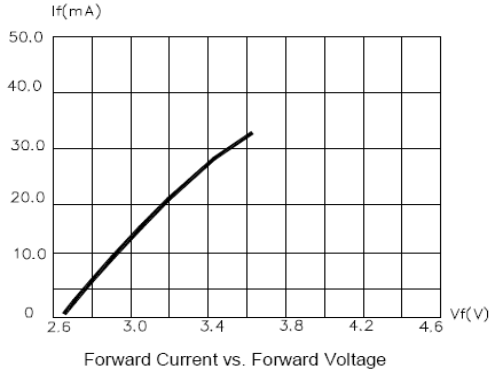
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Curvs

If(mA) vs Vf(V) — Forward Current vs. Forward Voltage

IV% vs If(mA) — Relative Luminous Intensity vs. Forward Current

IV% vs Ta(°C) — Relative Luminous Intensity vs. Ambient Temperature

IV% vs WL(nm) — Relative Luminous Intensity vs. Wavelength

If(mA) vs Ta(°C) — Maximum Forward Current vs. Ambient Temperature

Radiation Angle

	PLCC2	
	White	
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Solder Condition

Lead Free Solder

Classification Reflow Profile (JEDEC J-STD-020C)

235 - 240 °C
5 - 8 sec

183°C

40s

Preheat
60-120s

300s max

Temperature in °C

Time in (sec)

			PLCC2		
			White		
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Packing Specifications
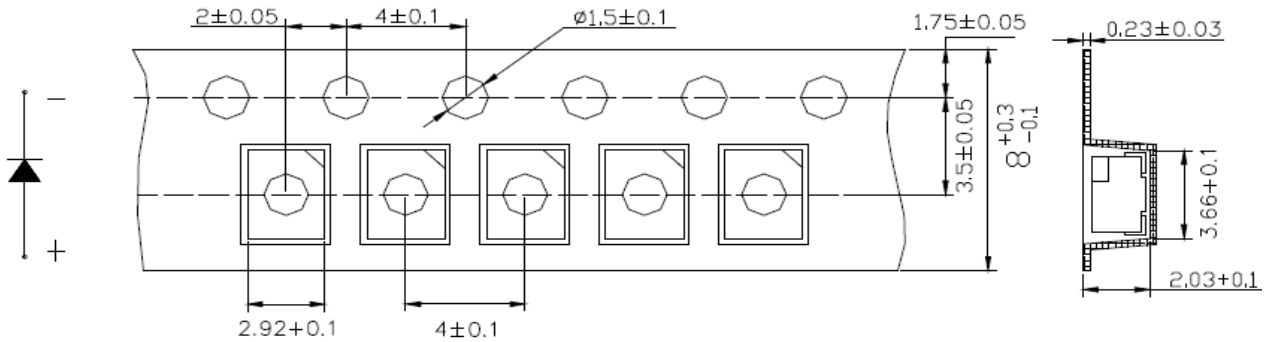
Reel Specifications
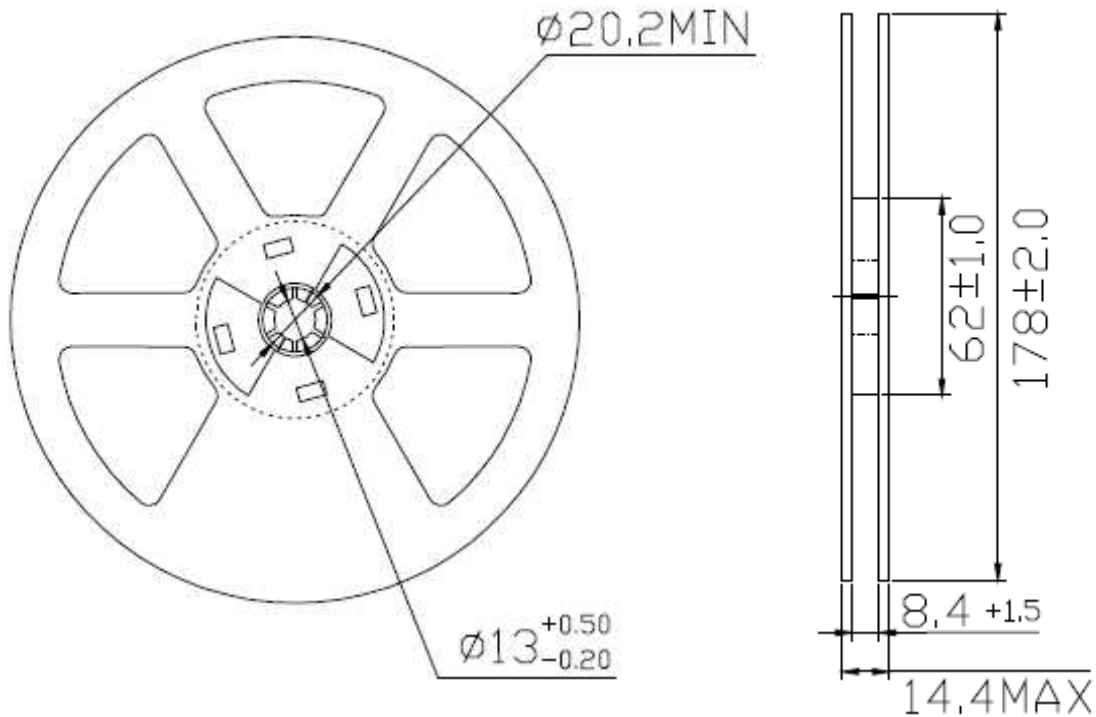
PLCC2
White

Part No.:	**M11A1047**
Customer:	

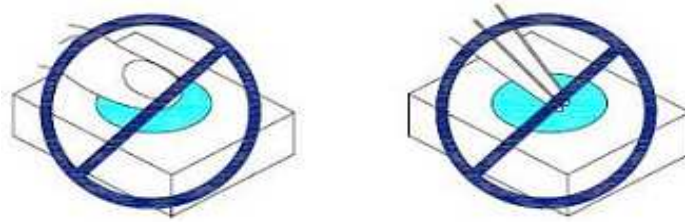| DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible.
Although ist characteristic significantly reduces thermal stress, it is more susceptible
to damage by external mechanical force. As a result, special handling precautions need
to be observed during assembly using silicone encapsulated LED products. Failure
to comply might leads to damage and premature failure of th LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools

2. Do not directly touch or handle the silicone lens surfance. It may damage the
internal circuitry.

3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact
may scratch the silicone lens or damage the internal circuitry.
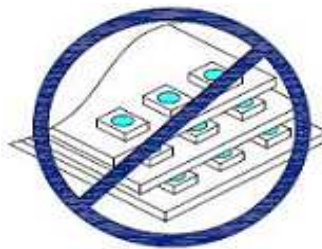
				PLCC2		
				White		
			Part No.:	**M11A1047**		
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4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the
   LED to prevent air leaks. The inner diameter of the nozzle should be as large
   as possible.

5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the
   LED surface during pickup.

6. The dimensions of the component must be accurately programmed in the
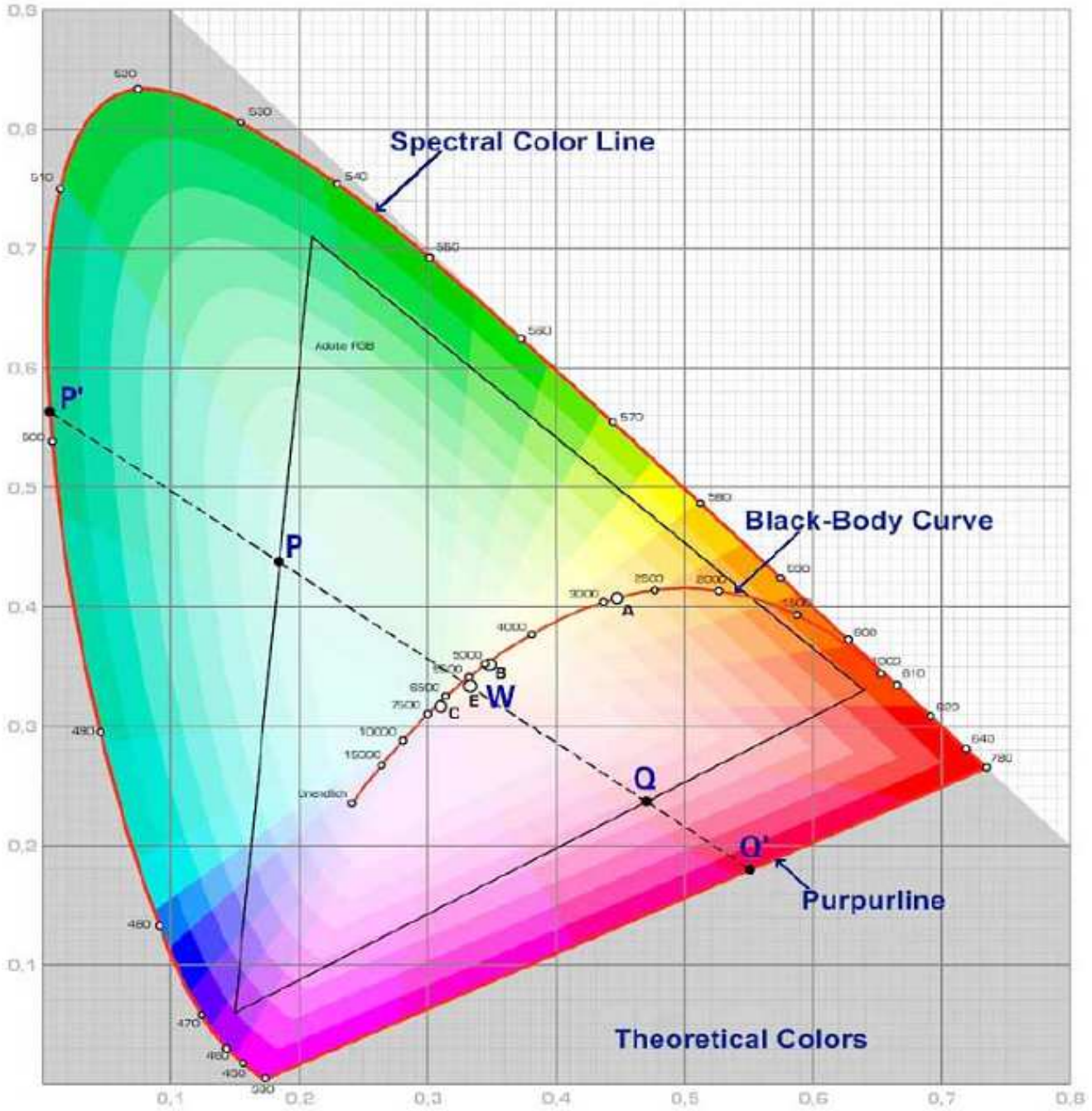   pick-and-place machine to insure precise pickup and avoid damage during production.

					PLCC2 *White*		
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Spectral Color Line

Black-Body Curve

Purpurline

Theoretical Colors

	PLCC2
	White

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