



PART NO.

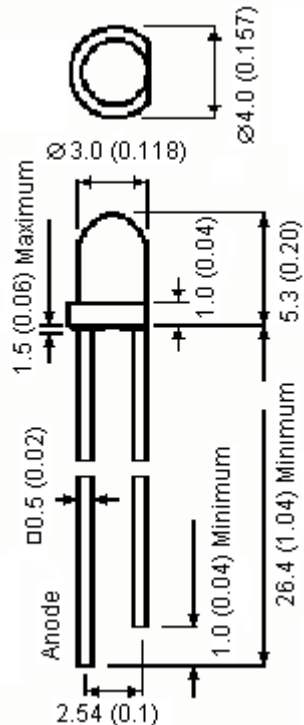
MCL034SWC-YH1

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08

Specifications:

Dice material : InGaN.  
 Emitted color : White.  
 Lens color : Water clear.  
 Dominant wavelength : Y = 0.32.  
 Viewing angle : 36 degrees.  
 Luminous intensity (IV) : 3700mcd.



Dimensions : Millimetres (Inches)

Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2500	3700	5500	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	36	-	degrees	
Peak Emission Wavelength	X	-	0.30	-	nm	-
Dominant Wavelength	Y	-	0.32	-		-
Spectral Line Half-Width	Δλ	-	-	-		-
Forward Voltage	VF	2.7	3.4	4.0	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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**TOLERANCES:**  
  
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<b>DRAWN BY:</b>	<b>DATE:</b>
Geetha	27/05/08
<b>CHECKED BY:</b>	<b>DATE:</b>
Suresh	27/05/08
<b>APPROVED BY:</b>	<b>DATE:</b>
G.Cook	11/06/08

**DRAWING TITLE:**

**3.0mm Round LED Lamp - Warm White**

<b>SIZE</b> A	<b>DWG NO.</b> M10001101	<b>ELECTRONIC FILE</b> L034SWC-YH1_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 1 OF 4</b>



PART NO.

MCL034SWC-YH1

REVISIONS

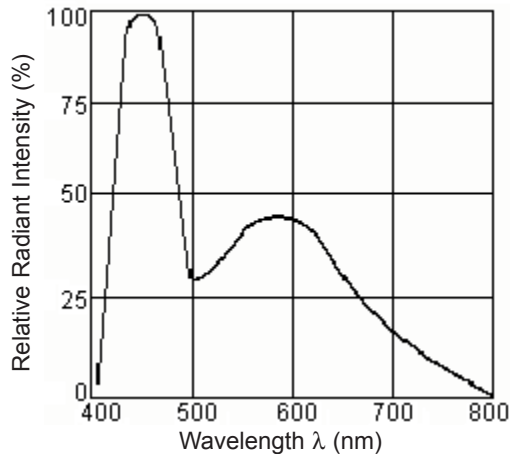
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

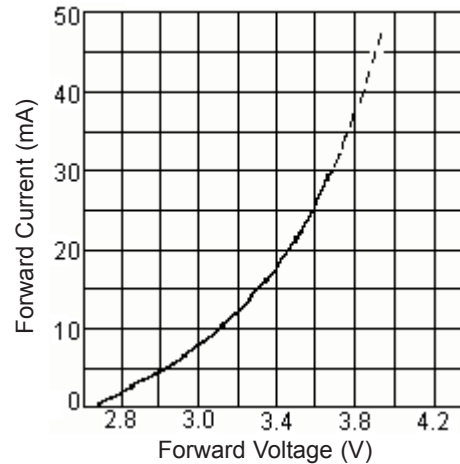
Reverse Voltage	5 Volt
Reverse Current	10µA (V <sub>R</sub> = 5V)
Electrostatics Discharge (ESD)	200 Volt
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

**White Typical Electrical Optical Characteristics Curves (T<sub>a</sub> = 25°C Ambient Temperature Unless Otherwise Noted)**

Relative Radiant Intensity vs. Wavelength



Forward Current vs. Forward Voltage



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Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

3.0mm Round LED Lamp - Warm White

SIZE <b>A</b>	DWG NO. <b>M10001101</b>	ELECTRONIC FILE L034SWC-YH1_DWG	REV <b>A</b>
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



PART NO.

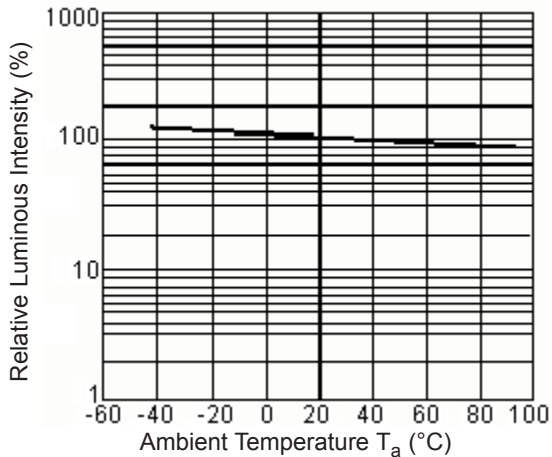
MCL034SWC-YH1

REVISIONS

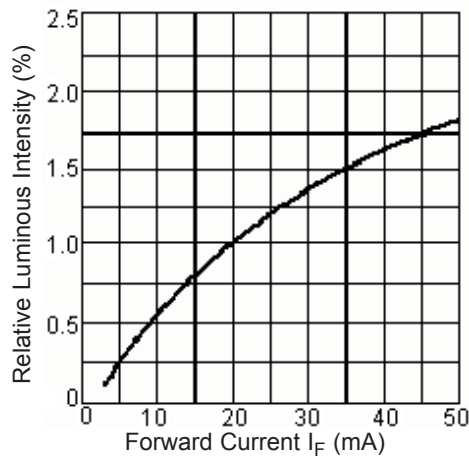
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White Typical Electrical Optical Characteristics Curves ( $T_a = 25^\circ\text{C}$  Ambient Temperature Unless Otherwise Noted)

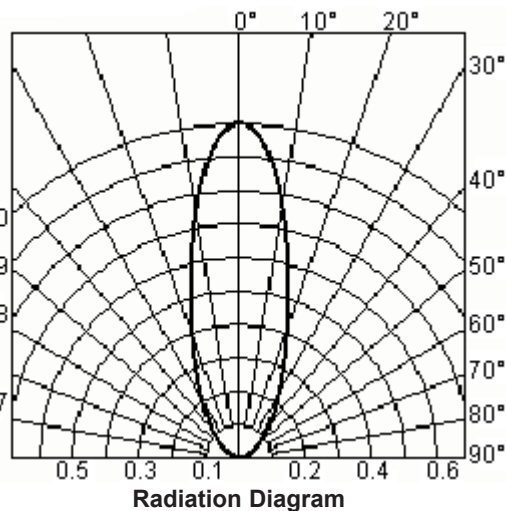
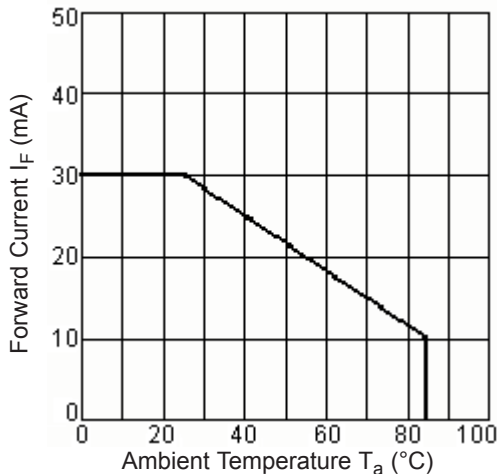
Relative Luminous Intensity vs. Ambient Temperature



Relative Luminous Intensity vs. Forward Current



Forward Current Derating Curve



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G.Cook	11/06/08

**DRAWING TITLE:**

3.0mm Round LED Lamp - Warm White

<b>SIZE</b> A	<b>DWG NO.</b> M10001101	<b>ELECTRONIC FILE</b> L034SWC-YH1_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 3 OF 4</b>



PART NO.

MCL034SWC-YH1

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08

Part Number Table

Description	Part Number
LED, 3mm, 36°, Warm White	MCL034SWC-YH1

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Suresh

APPROVED BY:

G.Cook

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27/05/08

DATE:

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DATE:

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DRAWING TITLE:

3.0mm Round LED Lamp - Warm White

SIZE  
A

DWG NO.

M10001101

ELECTRONIC FILE  
L034SWC-YH1\_DWG

REV  
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4