LEDTRONICS, INC.®

23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

LD120-SIW-85D-LL

Warm White

3.1mm, Domed, 4.3mm Height

85° viewing angle

DWG BY: SG / GP 07-21-09
CHK BY: PL 07-21-09
REVISION LTR: - 07-21-09

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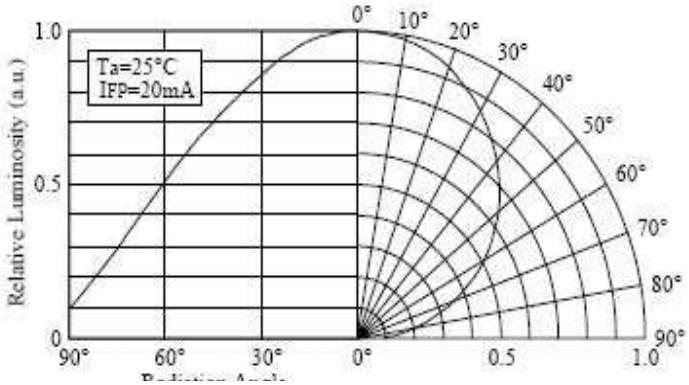
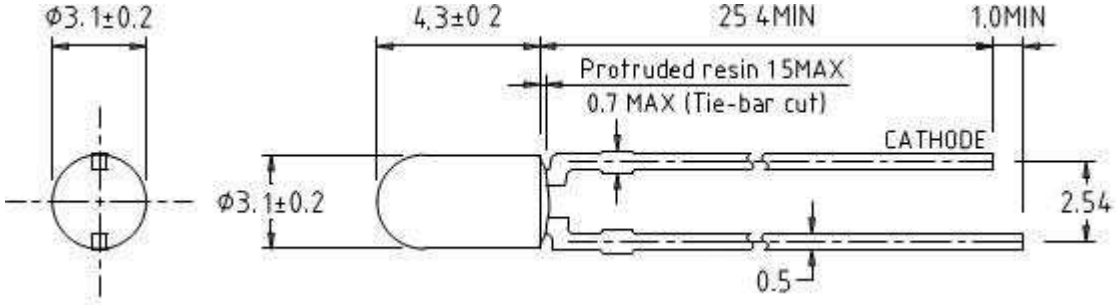
Beam Pattern



OUTLINE DIMENTIONS:



NOTES:

1. **All dimensions are in millimeters (inches).**
2. **Tolerance is ±0.25 (0.01") mm unless otherwise noted.**
3. **Protruded resin under flange is 1.0mm (0.04") max.**
4. **Lead spacing is measured where the leads emerge from the package.**
5. **Specifications are subject to change without notice.**

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ABSOLUTE MAXIMUM RATING: (Ta=25˚C)

Item	Symbol	Absolute Maximum Rating	Unit
Power Dissipation	Pd	120	mW
Pulse Forward Current	Ifp	150	mA
Forward Current	If	20	mA
Derating Factor	--	0.40	mA/ C
Reverse Voltage	Vr	5	V
Operating Temperature	Topr	-30 -- +85	˚C
Storage Temperature	Tstg	-40 -- +100	˚C
Soldering Temperature	Tsld	265˚C for 10 Sec	

Ifp Condition : Pulse Width ≦10 msec. Duty≦1/10

ELECTRICAL/OPTICAL CHARACTERISTICS

Item		Symbol	Condition	Typ.	Max.	Unit
Forward Voltage		Vf	If=20mA	3.1	3.5	V
Luminous Flux		--	If=20mA	5.0	--	lm
Luminous Intensity		Iv	If=20mA	2500	--	mcd
Viewing Angle		$2\theta_{1/2}$	If=20mA	85	--	deg
SCP		--	If=20mA	0.42	--	cd
Radiant Intensity		--	If=20mA	8.0	--	mW/sr
Chromaticity Coordinate*	x	--	If=20mA	0.43	--	--
	y	--	If=20mA	0.39	--	--

* Please refer to CIE1931 chromaticity coordinate.

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Color Temperature	K	If=20mA	2850K	2950K	3050K	--

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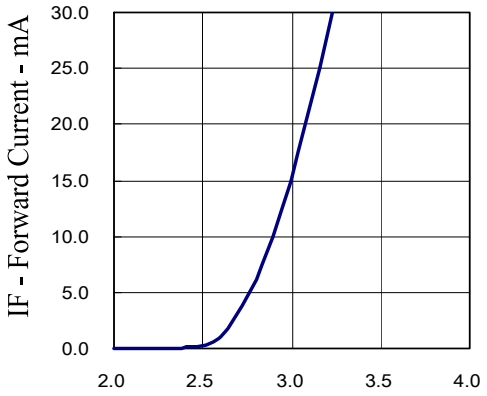
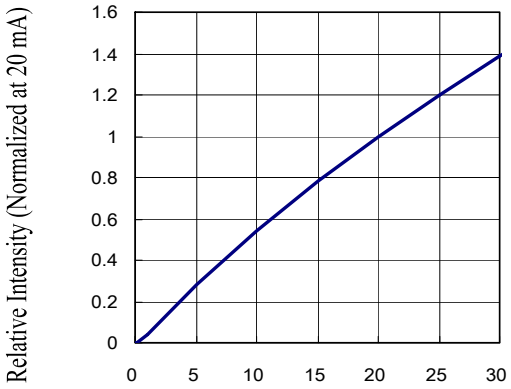
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

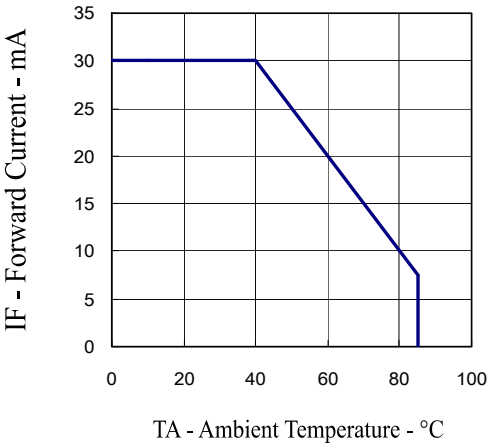
Forward Current vs. Forward Voltage



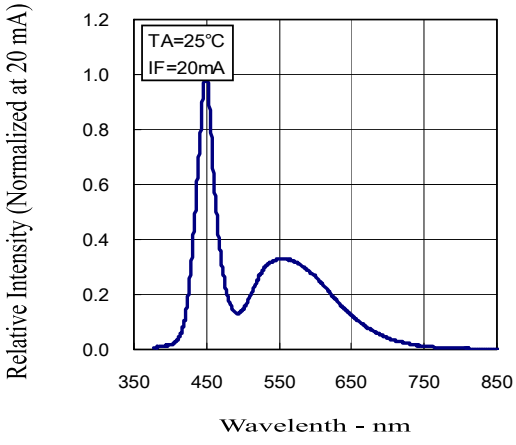
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength



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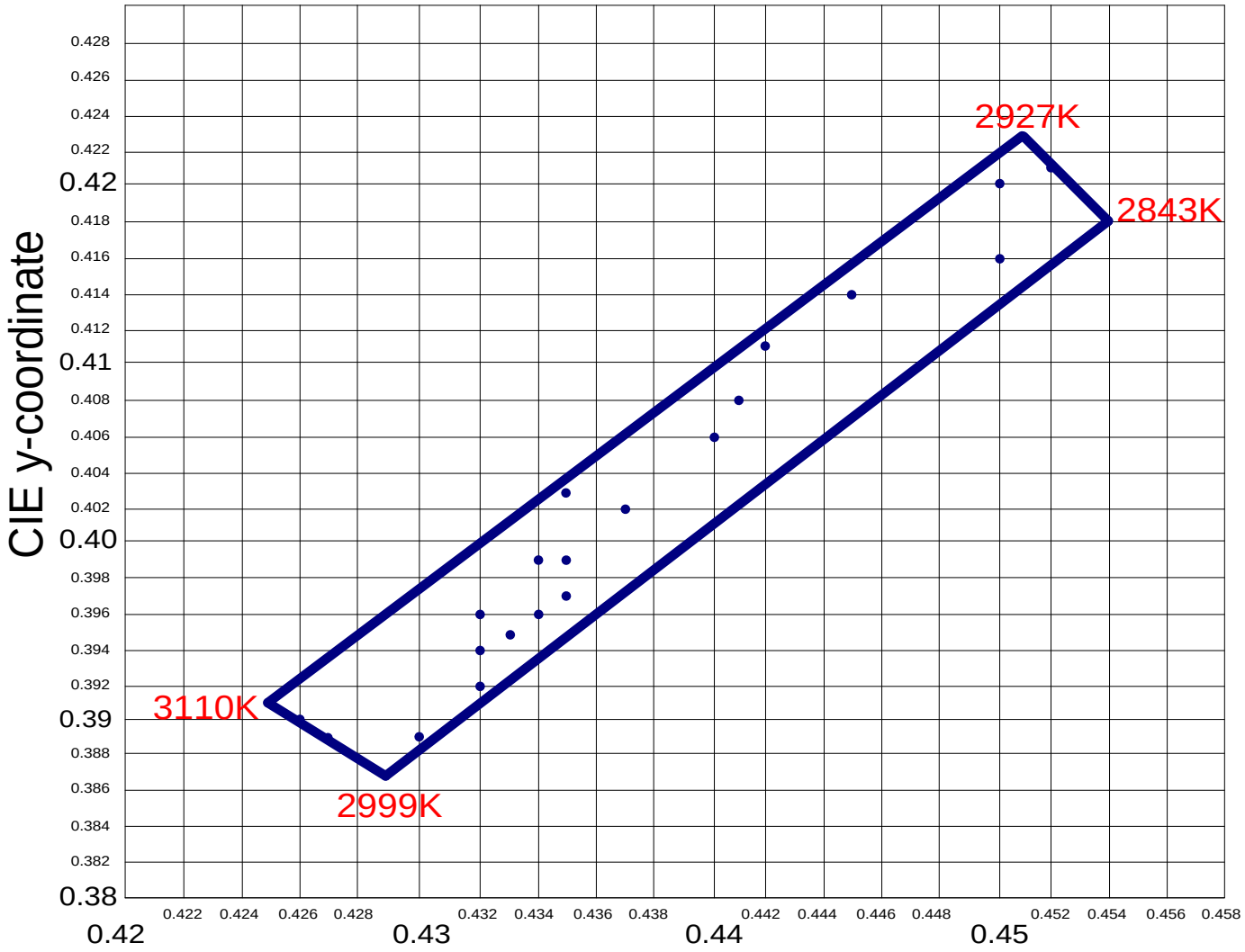
Color Bin Range



Color Code	Bin Code			CCT		CCT		CCT		CCT
SIW	RANK A	X	0.429	2999K	0.425	3110K	0.451	2927K	0.454	2843K
		Y	0.387		0.391		0.423		0.418	
	-	X	-	-	-	-	-	-	-	-
		Y	-		-		-		-	
	-	X	-	-	-	-	-	-	-	-
		Y	-		-		-		-	
	-	X	-	-	-	-	-	-	-	-
		Y	-		-		-		-	