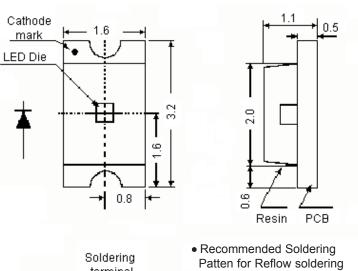


PART NO.

MCL-S250SBLC

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08



Specifications:

Dice material : InGaN.
Emitted color : Super blue.
Epoxy color : Water clear.
Peak wavelength : 470nm.
Viewing angle : 140 degrees.
Luminous intensity (IV) : 65mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	32	65	98	mcd	IF = 20mA
Viewing Angle	20 1/2	-	140	-	degrees	IF - ZUIIIA
Peak Emission Wavelength	• p	-	470	-		-
Dominant Wavelength	• 10	-	472	-	nm	-
Spectral Line Half-Width	Δλ	-	45	-		-
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	-

Soldering terminal

Patten for Reflow soldering

1.5

The polarity is reversed on the SR, UR series

Unit:mm Tolerance: +/-0.1

Dimensions: Millimetres

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DRAWN BY:	DATE:
Geetha	28/05/08
CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:								
	1206 SMD LED - Super Blue							
	SIZE A	DWG NO.	ı	M10001143	1	TRONIC FILE	i	REV A
	SCALE: NTS		U O M·mm		SHEET: 1	0	F 4	



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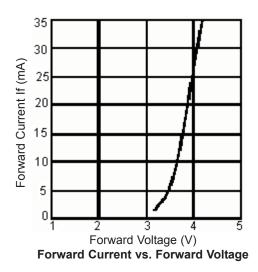
MCL-S250SBLC

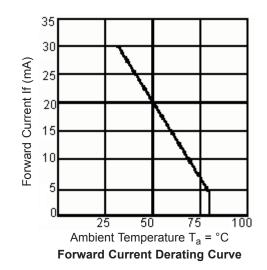
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

Reverse Voltage	5 Volt
Reverse Current	10μA (V _R = 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

Super Blue (InGaN $\lambda P = 470$ nm)





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Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

:	DRAWING TITLE:								
	1206 SMD LED - Super Blue								
	SIZE DWG NO.			M10001143	ELECTRONIC FILE L-S250SBLC DWG			REV A	
:	SCALE: NTS			U.O.M.: mm		SHEET: 2	OF	: 4	

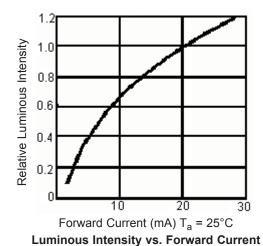


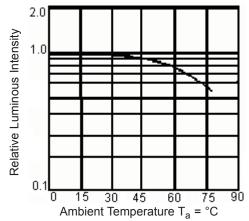
PART NO.

MCL-S250SBLC

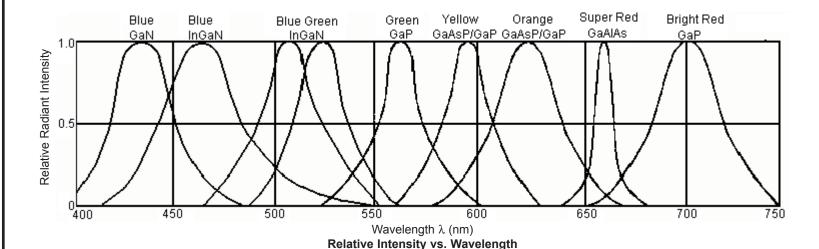
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

Super Blue (InGaN $\lambda P = 470$ nm)





Luminous Intensity vs. Ambient Temperature



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Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE: 1206 SMD LED - Super Blue

SIZE A	DWG NO.	M10001143		TRONIC FIL			REV A	
SCALE: NTS		U.O.M.: mm		SHEET:	3	OF	4	1



PART NO.

MCL-S250SBLC

REVISIONS								
ECN #	REV DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

Part Number Table

Description	Part Number			
LED, SMD, 1206, Super-Blue	MCL-S250SBLC			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWI	NG TITLE:							
1206 SMD LED - Super Blue								
SIZE A	DWG NO.	ſ	M10001143	ELECTRONIC FILE L-S250SBLC_DWG				REV A
SCALE: NTS			U.O.M.: mm		SHEET:	4	OF	4