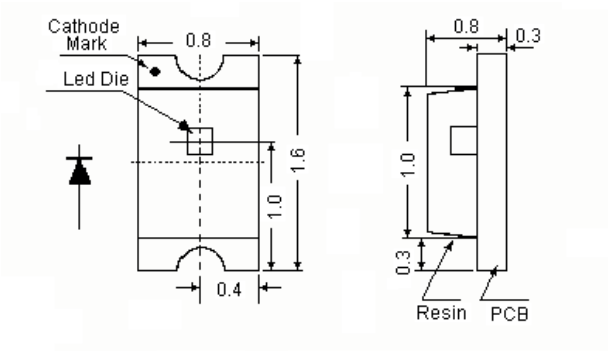
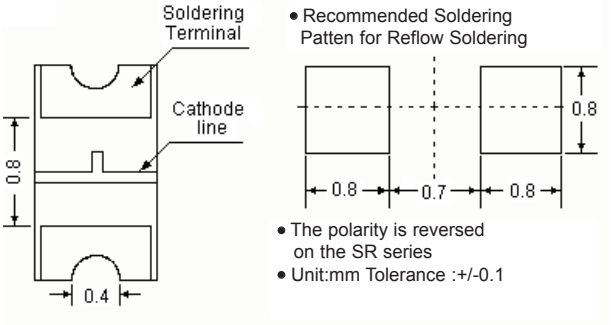
PART NO.	REVISIONS								
MCL-S291SBLC	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09





Dimensions : Millimetres

Specifications:

Dice material : InGaN.
Emitted colour : Super blue.
Epoxy colour : Water clear.
Peak wavelength : 470nm.
Viewing angle : 140 degrees.
Luminous intensity (IV) : 50mcd.

RoHS Compliant

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25	50	75	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	• p	-	470	-	nm	-
Dominant Wavelength	• d	-	472	-		-
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	-

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE: 0603 SMD LED - Super Blue

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002401	53040_1581248_DWG	A

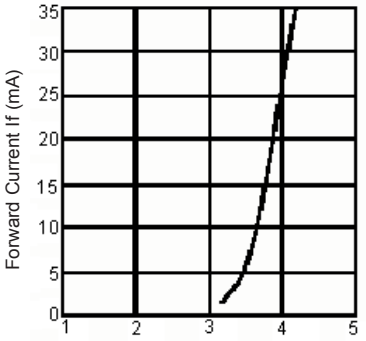
SCALE: NTS | U.O.M.: mm | SHEET: 1 OF 4

PART NO.	REVISIONS									
	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
MCL-S291SBLC	-	A	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

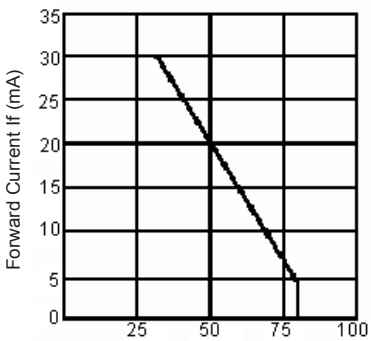
Absolute Maximum Ratings (T_a = 25°C)

Reverse Voltage	5 Volt
Reverse Current	10µA (V_R = 5V)
Electrostatic Discharge (ESD)	200V
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) λP = 470nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

TOLERANCES:

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Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

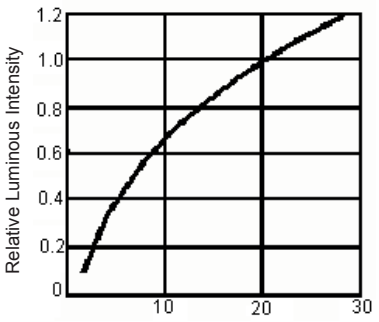
DRAWING TITLE: 0603 SMD LED - Super Blue

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002401	53040_1581248_DWG	A

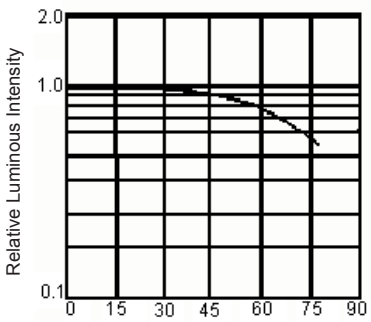
SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 4

PART NO.	REVISIONS									
	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
MCL-S291SBLC	-	A	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

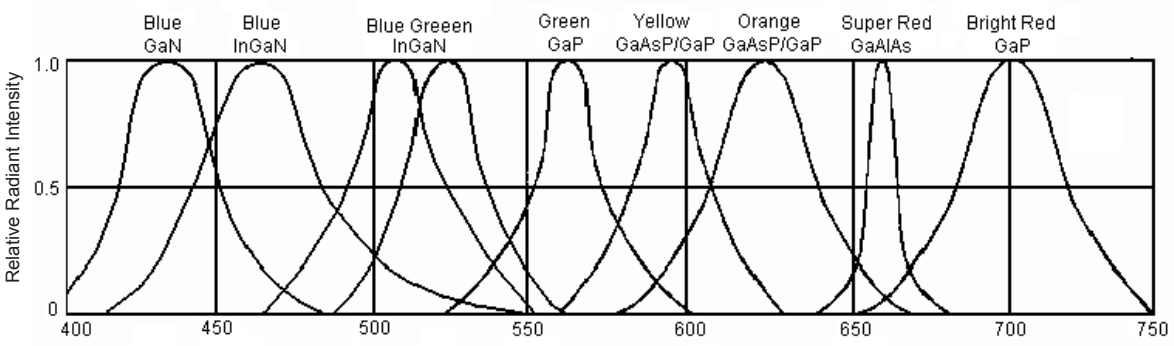
Super Blue (InGaN) λP = 470nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

TOLERANCES:

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Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE: 0603 SMD LED - Super Blue

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002401	53040_1581248_DWG	A

SCALE: NTS | U.O.M.: mm | SHEET: 3 OF 4

PART NO.	REVISIONS									
	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
MCL-S291SBLC	-	A	RELEASED	Ramya	14/10/09	Sridhar	14/10/09	Farnell	28/10/09

Part Number Table

Description	Part Number
LED, SMD, 0603, Super-Blue	MCL-S291SBLC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Ramya	14/10/09
CHECKED BY:	DATE:
Sridhar	14/10/09
APPROVED BY:	DATE:
Farnell	28/10/09

DRAWING TITLE: 0603 SMD LED - Super Blue

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002401	53040_1581248_DWG	A

SCALE: NTS | U.O.M.: mm | SHEET: 4 OF 4