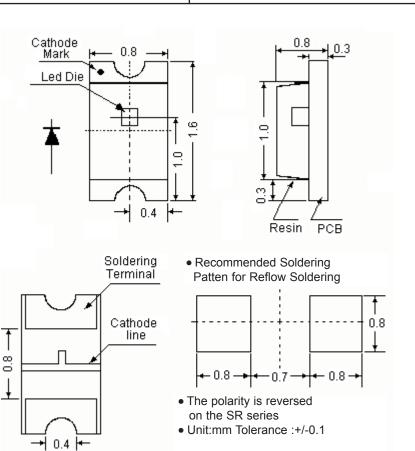


MCL-S291SBLC

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	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.



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	20 1/2	-	140	-	degrees	11F - 2011A
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	-

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Farnell	28/10/09

:	DRAWI	NG TITLE:						
				0603 SMD LED -	Supe	er Blue		
:	SIZE A	DWG NO.		V110002401	· ·	TRONIC FILE _1581248_DWG		REV A
:_	SCAL	E: NTS		U.O.M.: mm		SHEET: 1	OF	: 4



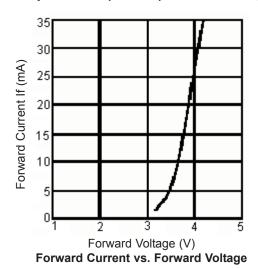
MCL-S291SBLC

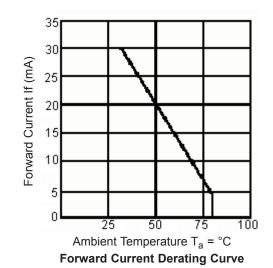
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Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

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) $\lambda P = 470$ nm)





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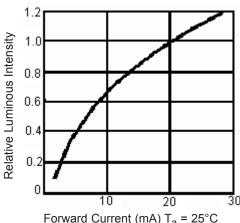
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0603 SMD LED - Super Blue								
SIZE A	DWG NO.	M10002401		TRONIC FIL _1581248_D			REV A	
SCAL	E: NTS	U.O.M.: mm	SHEET: 2 O			OF	4	



MCL-S291SBLC

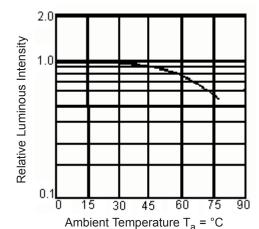
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Super Blue (InGaN) $\lambda P = 470$ nm)

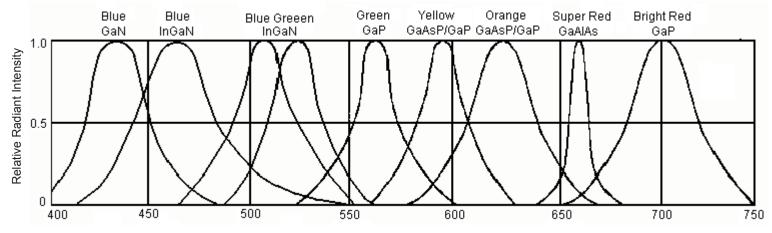


Forward Current (mA) T_a = 25°C

Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



 $\label{eq:wavelength} Wavelength \; \lambda \; (\text{nm}) \\ \textbf{Relative Intensity vs. Wavelength}$

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DRAWING TITLE:								
0603 SMD LED - Super Blue								
SIZE A	DWG NO.	M10002401	l -	TRONIC FILE _1581248_DWG	REV A			
SCAL	E: NTS	U.O.M.: mm		OF 4				



MCL-S291SBLC

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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

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

DRAW	NG TITLE:						
			0603 SMD LED -	Supe	er Blue		
SIZE A	DWG NO.	ı	M10002401	l -	TRONIC FILE _1581248_DWG		REV A
SCALE: NTS			U.O.M.: mm		SHEET: 4	OF	= 4