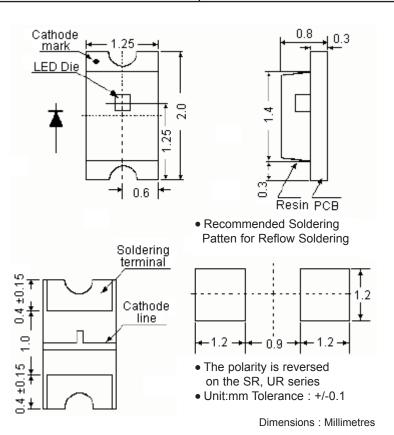


MCL-S270SBLC

	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) : 55mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	45	55	75	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	2.8	3.5	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	-

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its regilgence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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

:	DRAW	NG TITLE:						
			0805 SMD LED - Super Blue					
:	SIZE	DWG NO.	M10001151	1	TRONIC FIL			REV A
:	SCAL	E: NTS	U.O.M.: mm		SHEET:	1	OF	4



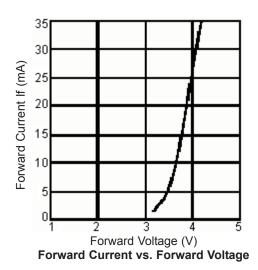
MCL-S270SBLC

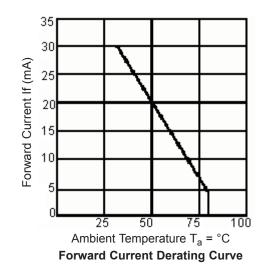
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

Absolute Maximum Ratings ($T_a = 25$ °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	260°C for 5 Seconds

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





This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from engligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group is liability for death or personal injury resulting from its regilgence. SPC MULTICOMP is the registered trademark of the Group. © Premier Fameli pic 2008.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

 DRAWN BY:
 DATE:

 Geetha
 28/05/08

 CHECKED BY:
 DATE:

 Suresh
 28/05/08

 APPROVED BY:
 DATE:

 G.Cook
 12/06/08

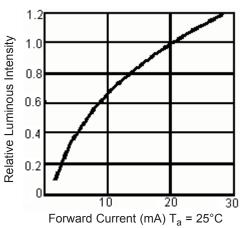
DRAWING TITLE:							
0805 SMD LED - Super Blue							
SIZE A	DWG NO.	M10001151		TRONIC FIL '0SBLC_D			REV A
SCALE: NTS		U.O.M.: mm		SHEET:	2	OF	4



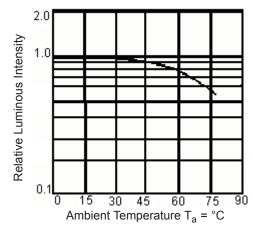
MCL-S270SBLC

	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

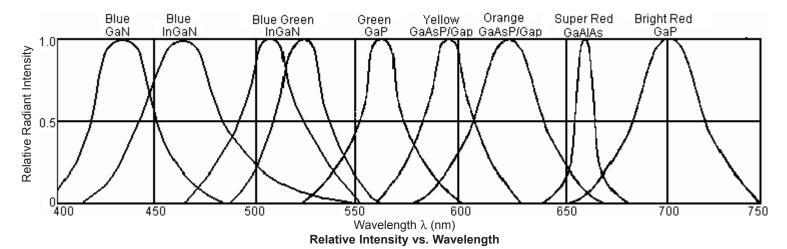
Super Blue (InGaN) $\lambda P = 470$ nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTIONMP is the registered trademark of the Group. © Premier Farnell ple 2008.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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

DRAW	DRAWING TITLE:							
	0805 SMD LED - Super Blue							
SIZE A	DWG NO.	M10001151	l -	TRONIC FILE 70SBLC_DWG	REV A			
SCALE: NTS U.O.M.: mm				SHEET: 3 C)F 4			



MCL-S270SBLC

	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, 0805, Super-Blue	MCL-S270SBLC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from this negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Famell plc 2008.

UNLESS OTHERWISE
DIMENSIONS ARE FOR REFERENCE
FOR REFERENCE
PURPOSES ONLY.

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

	DRAWI	NG TITLE:				
]		0805 SMD LED - Super Blue			
	SIZE	DWG NO.	M10001151	l -	TRONIC FILE 70SBLC_DWG	REV A
SCALE: NTS		E: NTS	U.O.M.: mm		SHEET: 4 Of	F 4