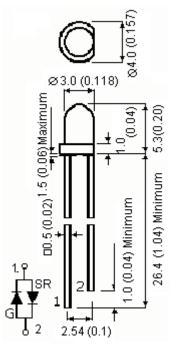


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MCL036SRGW

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08



Dimensions: Millimetres (Inches)

Specifications:

Dice material : AIAGas/GaP. Emitted color : Super red/green. Lens color : Water diffused. Peak wavelength : 660/568nm. : 76 degrees. Viewing angle Luminous intensity (IV) : 30/10 mcd.



REV

Α

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	18/6	30/10	50/18	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	76	-	degrees	IF - 2011IA
Peak Emission Wavelength	• p	-	660/568	-		-
Dominant Wavelength	• 10	-	643/570	-	nm	-
Spectral Line Half-Width	Δλ	-	20/30	-		-
Forward Voltage	VF	1.5/1.7	1.8/2.1	2.5/2.6	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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CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWI	NG IIILE:			
	3.0 n	nm Bi-Color LED La	mp - HI Red / Gree	n
SIZE	DWG NO.	M10001158	ELECTRONIC FILE	

MITUUUT 158 L036SRGW_DWG Α SCALE: NTS SHEET: 1 OF 5 U.O.M.: mm (Inches)



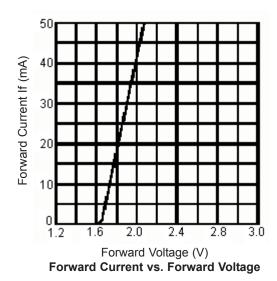
MCL036SRGW

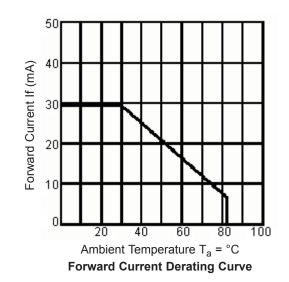
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-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08

Absolute Maximum Ratings ($T_a = 25$ °C)

Reverse Voltage	5 Volt
Reverse Current	10μA (V _R = 5V)
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 Red (GaAlAs) $\lambda P = 660$ nm)





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G.Cook	11/06/08

DRAWI	NG TITLE:		
	3.0mm Bi-Color LED Lar	mp - HI Red / Green	

 SIZE A
 DWG NO.
 M10001158
 ELECTRONIC FILE L036SRGW_DWG
 REV A

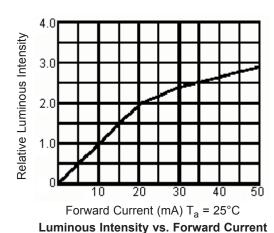
 SCALE: NTS
 U.O.M.: mm (Inches)
 SHEET: 2 OF 5



MCL036SRGW

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08

Super Red (GaAlAs) $\lambda P = 660$ nm)



Selative Luminous Intensity

O.5

O.2

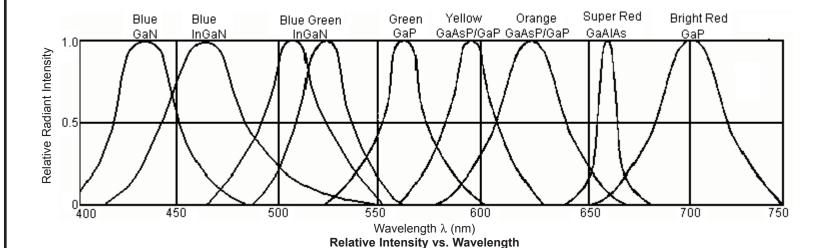
O.1

-20

O.10

Ambient Temperature T_a = °C

Luminous Intensity vs. Ambient Temperature



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APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

3.0mm Bi-Color LED Lamp - HI Red / Green

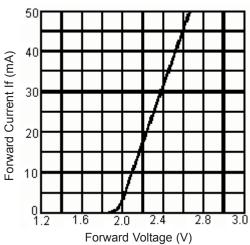
SIZE A	DWG NO.	M10001158	ELECTRONIC FILE L036SRGW_DWG				REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3		OF	5	



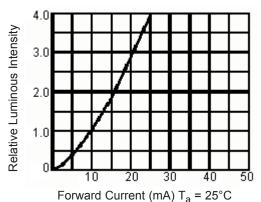
MCL036SRGW

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08

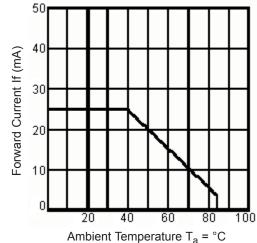
Green (GaP λ P = 568nm)



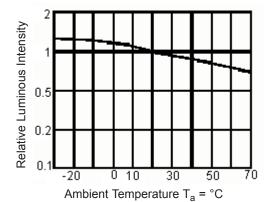
Forward Current vs. Forward Voltage



Luminous Intensity vs. Forward Current



Forward Current Derating Curve



Luminous Intensity vs. Ambient Temperature

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Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAW	ING TITLE:
	3.0mm Bi-Color LED Lamp - HI Red / Green

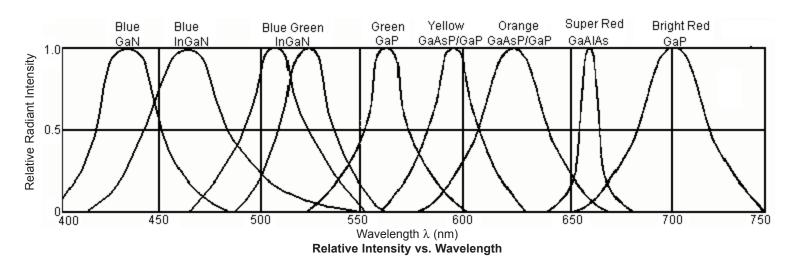
 SIZE A
 DWG NO.
 M10001158
 ELECTRONIC FILE L036SRGW_DWG
 REV A

 SCALE: NTS
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MCL036SRGW

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Part Number Table

Description	Part Number
LED, 3mm, AC, HI-Red/Green	MCL036SRGW

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

	DI UW	3.0mm Bi-Color LED Lar	np - HI Red / Green
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	SIZE DWG NO.		M10001158	ELECTRONIC FILE L036SRGW_DWG				REV A	!
_	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	5	OF	5	