

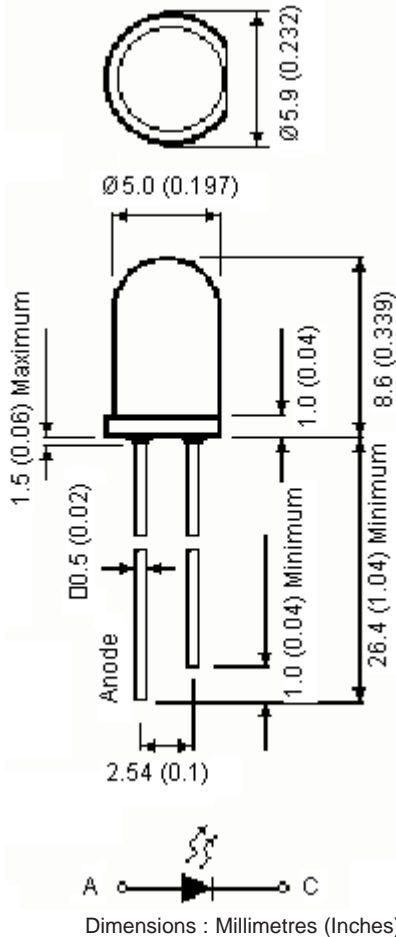


PART NO.

MCLF056AD

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	30/5/08	Suresh	30/5/08	G. C	13/6/08



Features:

- Built-in IC chip, flashes lamp on and off to attract attention.
- Operating voltage range : 3V-10V dc.
- 1/4 duty cycle.
- Blinking frequency : 2.4Hz ($V_{dd} = 5V$).
- Frequency tolerance : 20%.

Specifications:

- Dice material : GaAsP on GaP.
- Emitted color : Orange red.
- Lens color : Orange diffused.
- Peak wavelength : 635nm.
- Viewing angle : 45 degrees.
- Luminous intensity (IV) : 9.8mcd.

Electrical Optical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test Condition
Luminous Intensity	I_V	-	9.8	-	mcd	$I_f = 20mA$
Peak Emission Wavelength	λ_p	-	635	-	nm	Measurement at Peak
Dominant Wavelength	λ_d	-	625	-		$I_f = 20mA$
Operating Voltage	V_{dd}	3	5	10	V	-
Blinking Frequency	F_{blk}	2.0	2.4	2.8	Hz	-
Reverse Current	I_R	-	-	100	μA	$V_R = 5V$

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 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	30/05/08
CHECKED BY:	DATE:
Suresh	30/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:			
5.0mm Round LED Lamp - Orange			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001202	LF056AD_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 1 OF 4



PART NO.

MCLF056AD

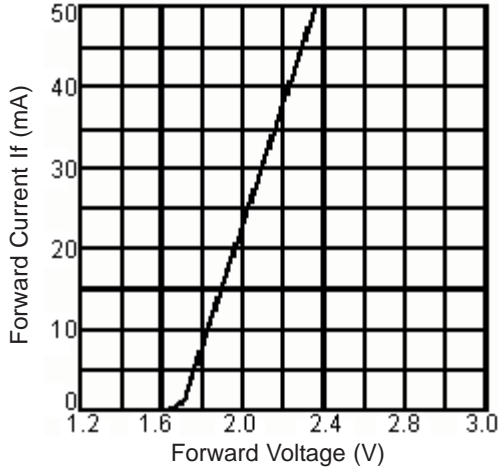
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	30/5/08	Suresh	30/5/08	G. C	13/6/08

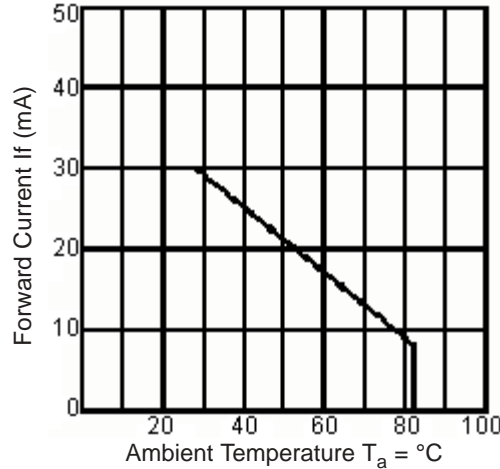
Absolute Maximum Ratings at T_a = 25°C

Parameter	Maximum	Unit
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range		
Lead Soldering Temperature [4mm (0.157 inch) from body]	260°C for 5 Seconds	

Orange (GaAsP/CaP λP = 635nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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 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	30/05/08
CHECKED BY:	DATE:
Suresh	30/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:			
5.0mm Round LED Lamp - Orange			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001202	LF056AD_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



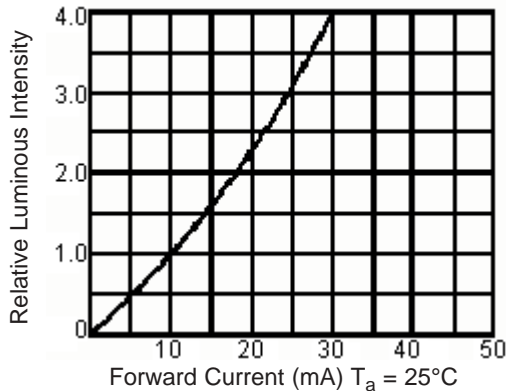
PART NO.

MCLF056AD

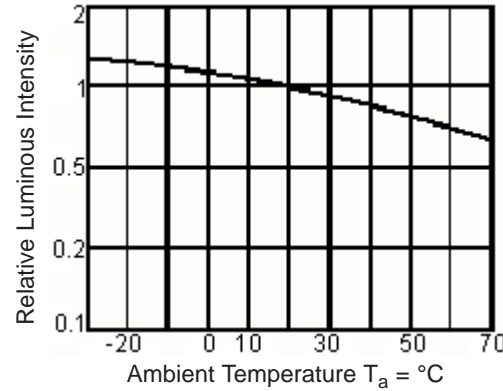
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	30/5/08	Suresh	30/5/08	G. C	13/6/08

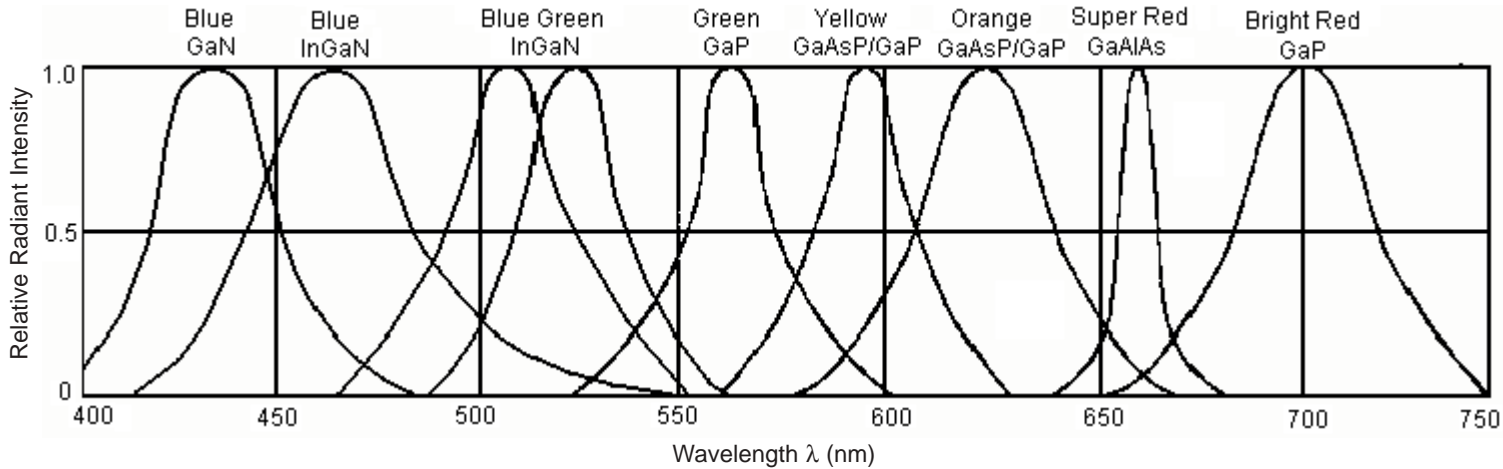
Orange (GaAsP/CaP $\lambda_P = 635\text{nm}$)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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 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	30/05/08
CHECKED BY:	DATE:
Suresh	30/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:
5.0mm Round LED Lamp - Orange

SIZE A	DWG NO. M10001202	ELECTRONIC FILE LF056AD_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 3 OF 4



PART NO.

MCLF056AD

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	30/5/08	Suresh	30/5/08	G. C	13/6/08

Part Number Table

Description	Part Number
LED, Flashing, 5mm, Orange	MCLF056AD

<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 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 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	30/05/08
CHECKED BY:	DATE:
Suresh	30/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Orange

SIZE A	DWG NO. M10001202	ELECTRONIC FILE LF056AD_DWG	REV A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 4	