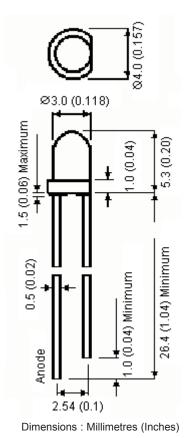


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#### MCL034PD

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	A RELEASED		26/5/08	Suresh	26/5/08	G. C	10/6/08



### **Specifications:**

Dice material : GaP. Emitted color : HI-red. Lens color : Red diffused.

Peak wavelength : 697nm. : 76 degrees. Viewing angle Luminous intensity (IV) : 2.6mcd.



## Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.2	26	3.8	mcd	IF = 10mA
Viewing Angle	2θ 1/2	-	76	-	degrees	IF - TOTA
Peak Emission Wavelength	• p	-	697	-		-
Dominant Wavelength	• 10	-	650	-	nm	-
Spectral Line Half-Width	Δλ	-	90	-		-
Forward Voltage	VF	1.7	2.1	2.6	V	IF = 10mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	50	-	-
Recommended Operating Current	IF (Rec)	-	10	-	mA	-

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G.Cook	10/06/08

DRAWI	NG TITLE:							
		3.0	mm Round LED Lamp - HI Red					
SIZE DWG NO.		ı	M10001100 I		ELECTRONIC FILE L034PD_DWG			REV A
SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	4	



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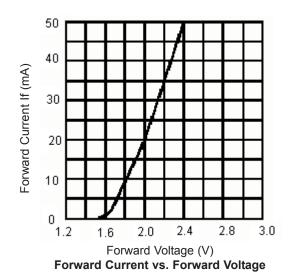
#### MCL034PD

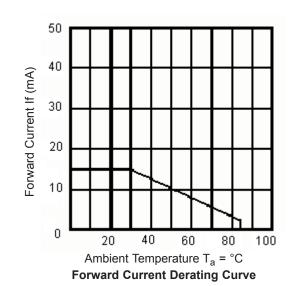
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# Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> = 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

# Bright Red (GaP $\lambda$ P = 697nm)





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G.Cook	10/06/08

DRAWING TITLE:								
3.0mm Round LED Lamp - HI Red								
SIZE A	DWG NO.	ľ	M10001109	l -	TRONIC FILE PD_DWG		REV A	
SCALE: NTS			U.O.M.: mm (Inches)		SHEET: 2	2 0	F 4	

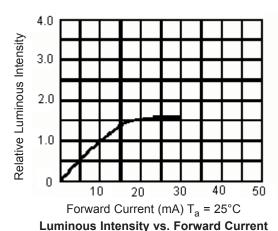


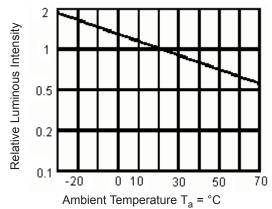
PART NO.

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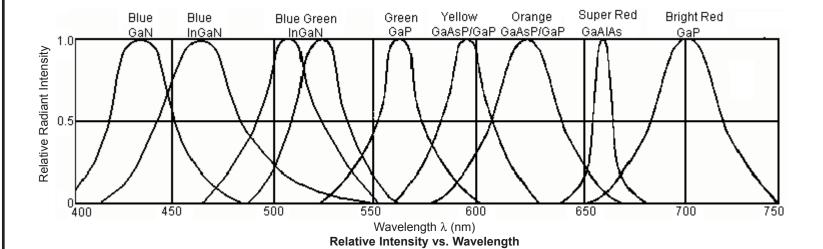
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### Bright Red (GaP $\lambda$ P = 697nm))





**Luminous Intensity vs. Ambient Temperature** 



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	]			3.0mm Round LED Lamp - HI Red				
	SIZE DWG NO.		ľ	M10001109	ELECTRONIC FILE L034PD_DWG			REV A
_	SCALE: NTS			U O M · mm (Inches)		SHEET: 3	OI	= 4



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#### **Part Number Table**

Description	Part Number		
LED, 3mm, 70°, HI-Red	MCL034PD		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

SHEET:

OF 4

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Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

SCALE: NTS

DRAW	NG TITLE:					
		3.0mm Round LED Lamp - HI Red				
SIZE A	DWG NO.	M10001109	ELECTRONIC FILE L034PD_DWG	REV A		

U.O.M.: mm (Inches)