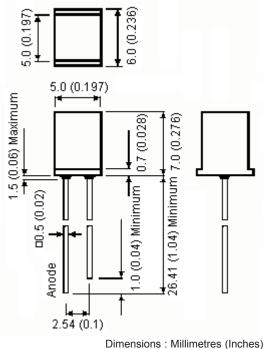


PΑ	R	Т	N	C

MCL293BD

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08



Specifications:

Dice material : GaAsP on GaP.

Emitted color : Amber. Lens color : Amber diffused.

Peak wavelength : 610nm. : 150 degrees. Viewing angle Luminous intensity (IV) : 4.5mcd.

Electrical/Optical Characterisitics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2.5	4.5	6.6	mcd	IF = 20mA
Viewing Angle	20 1/2	-	150	-	degrees	IF - 2011IA
Peak Emission Wavelength	• p	-	610	-		-
Dominant Wavelength	• 10	-	606	-	nm	-
Spectral Line Half-Width	Δλ	-	40	-		-
Forward Voltage	VF	1.7	2.1	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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DRAWN BY:	DATE:
Veena	25/06/08
CHECKED BY:	DATE:
Suresh	25/06/08
APPROVED BY:	DATE:
G.Cook	10/07/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - Amber

SIZE A	DWG NO.	M10001266	· ·	TRONIC FIL BD_DWG	_E		REV A
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	1	OF	4



PART NO.

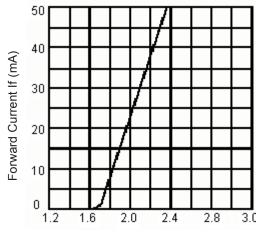
MCL293BD

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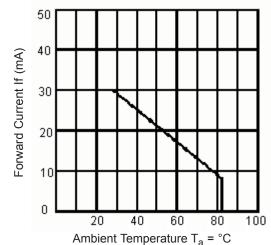
Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

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

Amber (GaAsP/CaP λ P = 610nm)



Forward Voltage (V)
Forward Current vs. Forward Voltage



Forward Current Derating Curve

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Suresh	25/06/08
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G.Cook	10/07/08

DRAWING TITLE

5.0mm x 5.0mm x 7.0mm Square LED Lamp - Amber

SIZE A	DWG NO.	M10001266	 TRONIC FIL BD_DWG	E.		REV A	,
SCAL	SCALE: NTS U.O.M.: mm (Inches)		SHEET:	2	OF	4	

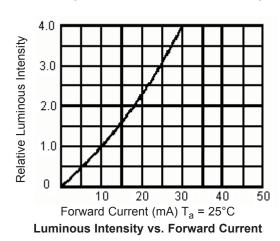


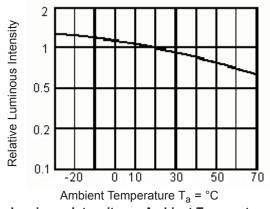
PART NO.

MCL293BD

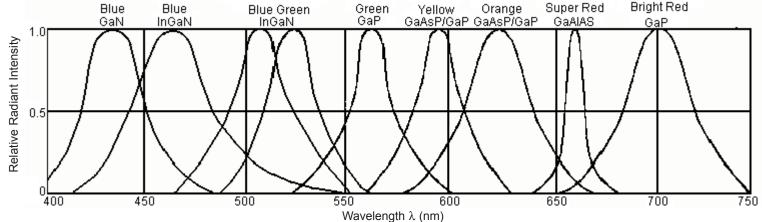
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08

Amber (GaAsP/CaP λ P = 610nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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CHECKED BY:	DATE:
Suresh	25/06/08
APPROVED BY:	DATE:
G.Cook	10/07/08

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - Amber

SIZE A	DWG NO.	M10001266	 TRONIC FIL BD_DWG	_E		REV A
SCAL	E: NTS	U.O.M.: mm (Inches)	SHEET:	3	OF	= 4



PART NO.

MCL293BD

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08

Part Number Table

Description	Part Number			
LED, 5mm x 5mm, 150°, Amber	MCL293BD			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	DRAWN BY:	DATE:		
	Veena	25/06/08		
	CHECKED BY:	DATE:		
	Suresh	25/06/08		
	APPROVED BY:	DATE:		
	G.Cook	10/07/08		

DRAWING TITLE:

5.0mm x 5.0mm x 7.0mm Square LED Lamp - Amber

 SIZE A
 DWG NO.
 M10001266
 ELECTRONIC FILE L293BD_DWG
 REV A

 SCALE: NTS
 U.O.M.: mm (Inches)
 SHEET: 4 OF 4