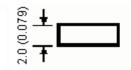
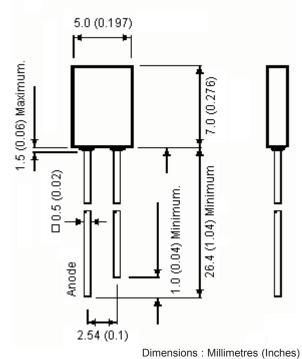
	PART NO.		REVISIONS										
	Γ Γ	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08			





Specifications:

•	
Dice material	: AIAGas.
Emitted color	: Super red.
Lens color	: Red diffused.
Peak wavelength	: 660nm.
Viewing angle	: 120 degrees.
Luminous intensity (IV)	: 12mcd.





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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5	12	18	mcd	IF = 20mA
Viewing Angle	20 1/2	-	120	-	degrees	IF - 2011A
Peak Emission Wavelength	• p	-	660	-		-
Dominant Wavelength	• 10	-	643	-	nm	-
Spectral Line Half-Width	Δλ	-	20	-		-
Forward Voltage	VF	1.5	1.85	2.5	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	-

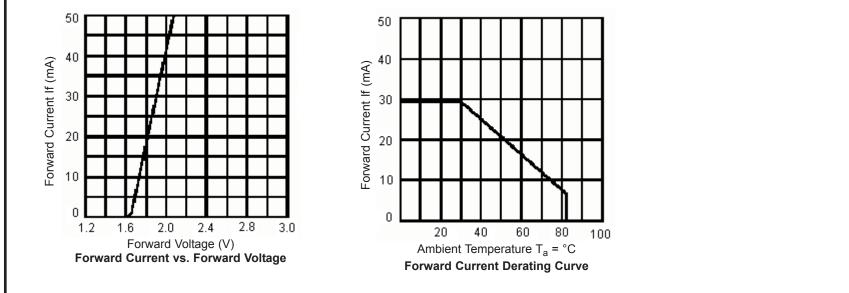
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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE	Rekha	27/05/08	2.0mm x 5.0mm Rectangular LED Lamp - Super Red						
		CHECKED BY:	DATE:	SIZE DWG NO.	M10001166		ELECTRONIC FILE			
		Suresh	27/05/08	A			L453SRD DWG			
	PURPOSES ONLY.	APPROVED BY:	DATE:	I		I	_	OF 4		
		G.Cook	11/06/08	SCALE: NTS	U.O.M.: mm		SHEET: 1			

	PART NO.		REVISIONS										
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	Α	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08			

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			

Super Red (GaAlAs) λP = 660nm)



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•	PART NO.			REVISIONS						
💿 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DAT
	MCL453SRD	-	A	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/
Super Red (GaAlAs) λP	= 660nm)									
10 20 30 Forward Current (mA) T _a Luminous Intensity vs. Forw Blue Blue GaN InGaN		perature s. Ambie Ora	T _a = °C ent Ten ange	nperature Super Red Bright Red						
Relative Radiant Intensity					-					
400 450	500 550 6i Wavelength λ (nm)			650 700 7	50					

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information purposes in connection with the products to which it relates. No licence	UNLESS OTHERWISE	Rekha	27/05/08	2.0mm x 5.0mm Rectangular LED Lamp - Super Red						
	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV			
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Suresh	27/05/08		M10001166	L453SRD DWG	A			
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multicomp	PART NO.		REVISIONS										
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	А	RELEASED	Rekha	27/5/08	Suresh	27/5/08	G. C	11/6/08			

Part Number Table

Description	Part Number
LED, 2mmX5mm, 120°, Super-Red	MCL453SRD

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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		CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV		
		Suresh	27/05/08		M10001166	L453SRD DWG	A		
		APPROVED BY:	DATE:						
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