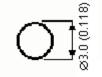
	PART NO.		REVISIONS							
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL514SRD	-	А	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08



Specifications:

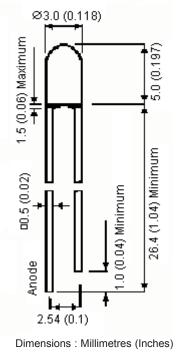
Dice material	: GaAlAs.
Emitted color	: Super red.
Lens color	: Red diffused.
Peak wavelength	: 660nm.
Viewing angle	: 76 degrees.
Luminous intensity (IV)	: 45mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	25	45	70	mcd	IF = 20mA
Viewing Angle	20 1/2	-	76	-	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	Veena	27/06/08	3	Lamp - Super Red		
	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
	DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Suresh	27/06/08	Δ	M10001258	L514SRD DWG	A
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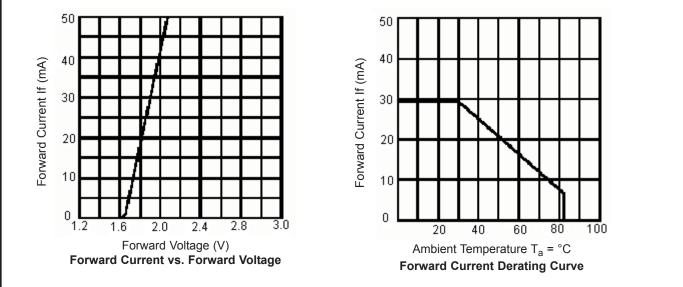


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		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
	MCL514SRD	-	А	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08	

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) $\lambda P = 660$ nm)



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Super Red (GaAlAs) λP	2 F			H				1			<u> </u>
Aligned State of the second state of the secon		-20 0 10 30 Ambient Temperature	T _a = °C	70 rature							
Blue Blue Blue Blue InGaN	500 550	GaAsP/GaP GaA	sPJGaP	Super Red GaAIAS	Bright Rea GaP	750					
	Relative Intens	ength λ (nm) sity vs. Wavelength									
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multicomp	PART NO.		REVISIONS							
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL514SRD	-	А	RELEASED	Veena	27/6/08	Suresh	27/6/08	G. C	14/7/08

Part Number Table

Description	Part Number
LED, 3mm, 70°, Super-Red	MCL514SRD

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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