

5mm Round Super Bright LED Lamp



Specifications

Dice Material	: AlInGaP
Peak Wave Length	: 655nm
Emitted Colour	: Ultra Red
Viewing Angle (deg)	: 16
Lens Colour	: Water Clear
IV(mcd)	: 7000

Electrical / Optical Characteristics at T_A = 25°C

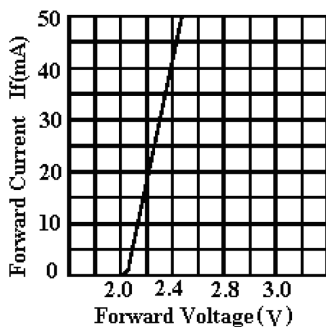
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Luminous Intensity	IV	6000	7000	8500	mcd	IF = 20mA
Viewing Angle	2Θ1/2	-	16	-	deg	
Peak Emission Wavelength	λ _p	650	655	660	nm	
Dominant Wavelength	λ _D	-	645	-	nm	
Spectral Line Half-Width	Δλ	-	20	-	nm	
Forward Voltage	V _F	2	2.2	2.4	V	
Power Dissipation	P _d	-	-	85	mW	
Peak Forward Current (Duty1/10 @ 1kHz)	I _F (Peak)	-	-	100	mA	
Recommended Operating Current	I _F (Rec)	-	20	-	mA	

Absolute Maximum Rating T_A = 25°C

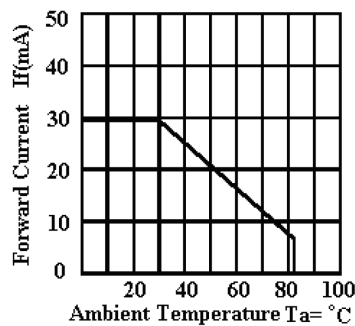
Reverse Voltage	5 Volt
Reverse Current	10μA (VR=5V)
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range (1.6mm (1/16 inch) from body)	260°C For 5 Seconds

Typical Electro-Optical Characteristics Curves

Ultra Red (AlGaInP) λ_P=660nm

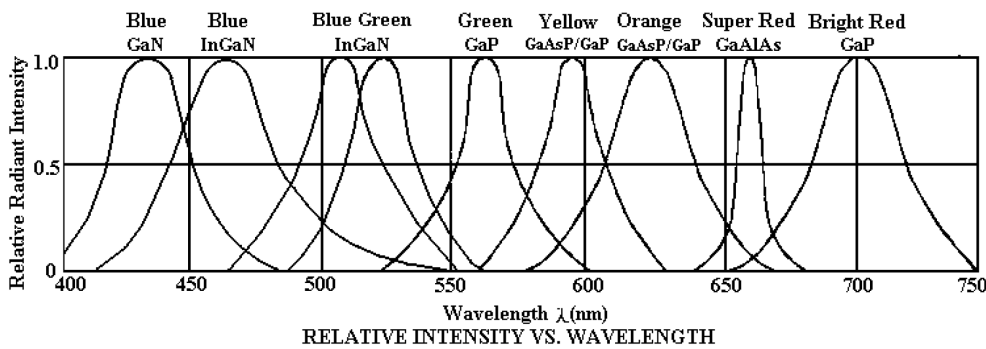
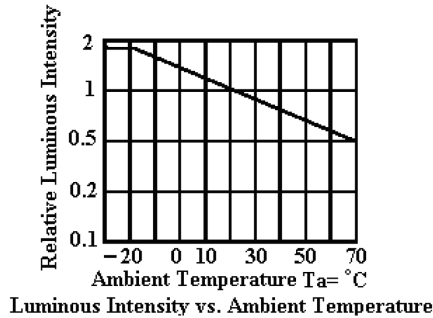
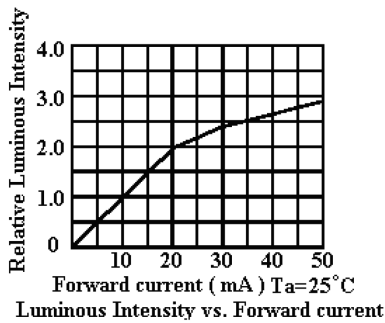


Forward current vs. Forward Voltage

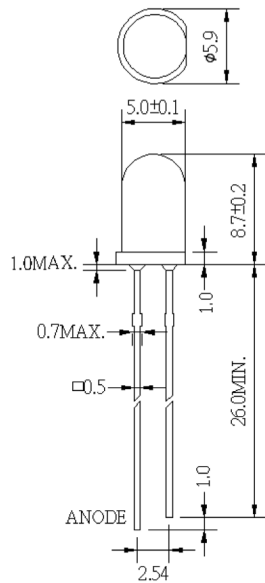


Forward current Derating curve

5mm Round Super Bright LED Lamp



Dimensions



Dimensions : Millimetres
Tolerance : $\pm 0.25\text{mm}$

Part Number Table

Description	Part Number
LED, 5mm, 16°, Super-Red	MCL053RHC

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (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. Multicomp is the registered trademark of the Group. © Premier Farnell Limited 2016.

www.element14.com
www.farnell.com
www.newark.com

