



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Feature

Low Power Consumption
High Intensity
I.C. compatible

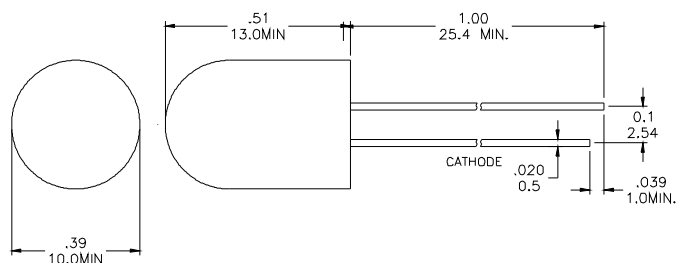
Applications

Commercial Outdoor Sign Board
Front Panel Indicator
Dot-Matrix Module
LED Bulb

Description

These High Intensity LEDs are Based on
AlGaInP Material Technology
Emitted color:Red
Water Transparent Lens

Package Dimension



Tolerance±	0.01	Unit±	inch
	0.25		mm

Absolute Maximum Ratings at Ta=25°C

Symbol	Parameter	Max.	Unit
PD	Power Dissipation	100	mW
VR	Reverse Voltage	5	V
IAF	Average Forward Current	25	mA
IPF	Peak Forward Current (Duty=0.1 , 1kHz)	85	mA
—	Derating Linear Form 25°C	0.4	mA / °C
Topr	Operating Temperature Range	- 40 to + 80	°C
Tstg	Storage Temperature Range	- 40 to + 100	°C
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.			

Electrical / Optical Characteristics and Curves at Ta=25°C

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
VF	Forward Voltage	IF = 20 mA		2.0	2.4	V
IR	Reverse Current	VR = 5 V			100	μ A
△ θ	Half Intensity Angle	IF = 20 mA		25		Deg.
IV	Luminous Intensity	IF = 20 mA		2500		mcd.
λ p	Peak Wavelength	IF = 20 mA		630		nm
λ d	Dominant Wavelength	IF = 20 mA		623		nm

Electrical Characteristics at Ta=25°C

Symbol	I _v		V _F		λ D	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF = 20mA		IF = 20mA		IF = 20mA	
Unit	mcd		V		nm	
Binning	Grade	Range	Grade	Range	Grade	Range
	BIN18	1800~2500	B	1.8~1.9	O2	620~625
	BIN19	2500~3500	C	1.9~2.0	O3	625~630
			D	2.0~2.1		
			E	2.1~2.2		
			F	2.2~2.3		

Intensity: Tolerance of minimum and maximum = ± 15%

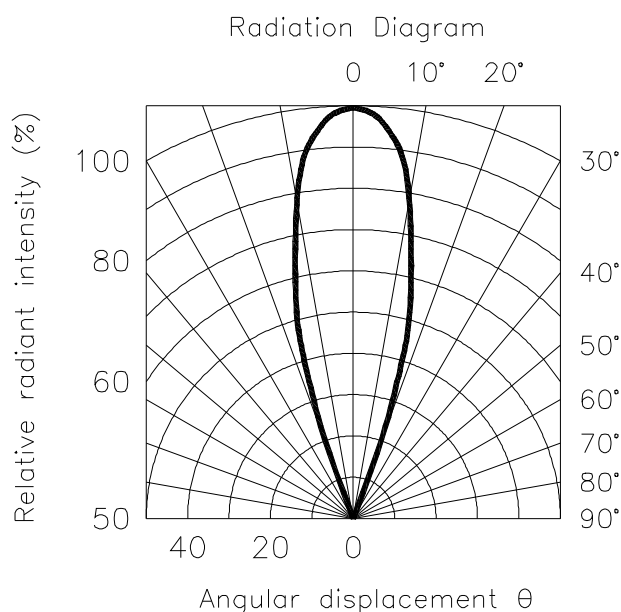
V_F: Tolerance of minimum and maximum = ± 0.05v

NOTE:

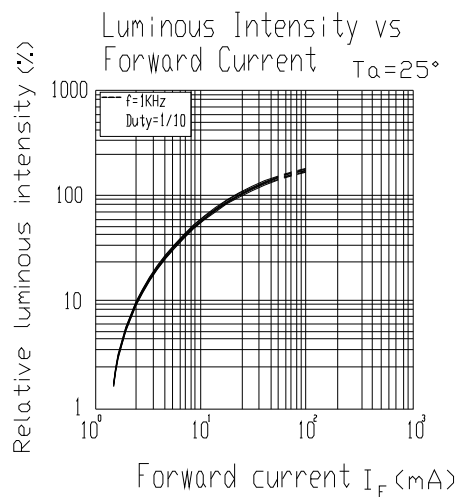
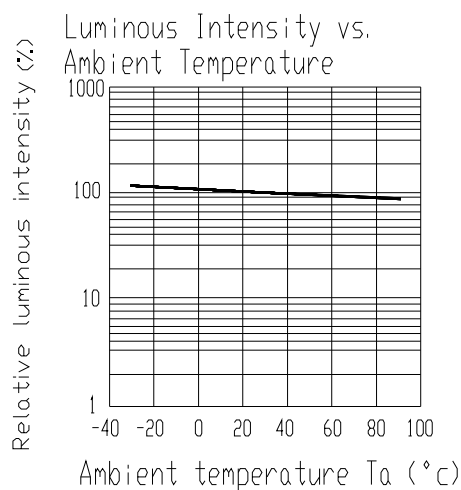
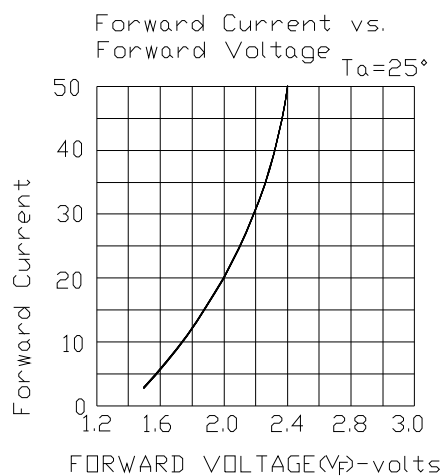
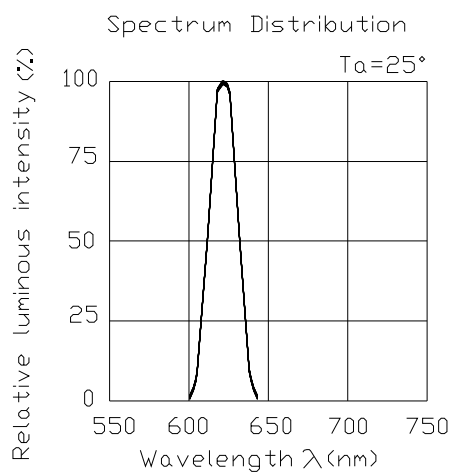
1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.

Radiation Diagram

IF=20 mA 50% Power Angle Angle =25°



Typical Electro-Optical Characteristics Curves



Forward Current Derating Curve

