

Feature

Low Power Consumption
High Intensity
I.C. compatible

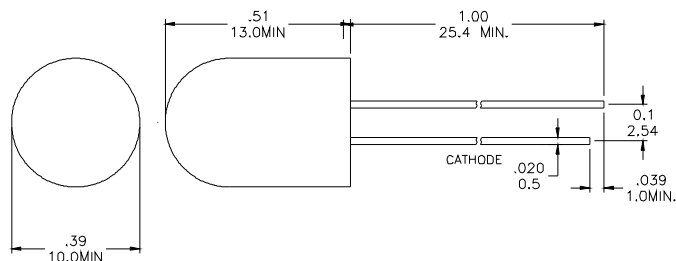
Applications

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%

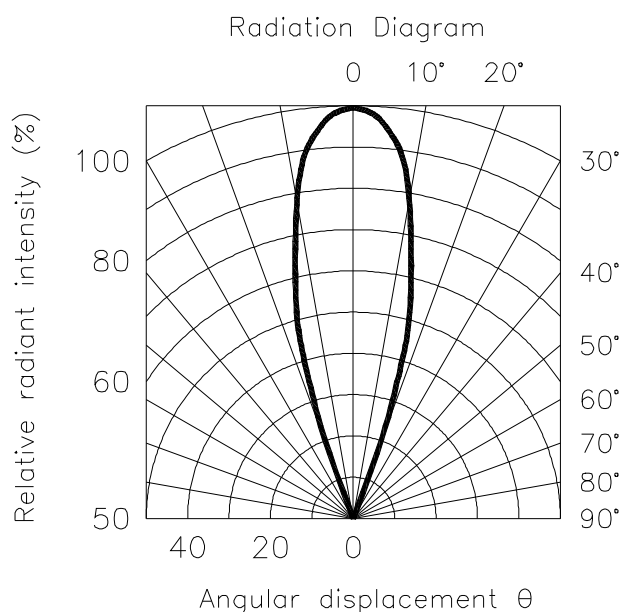
V_F: Tolerance of minimum and maximum = ± 0.05v

NOTE:

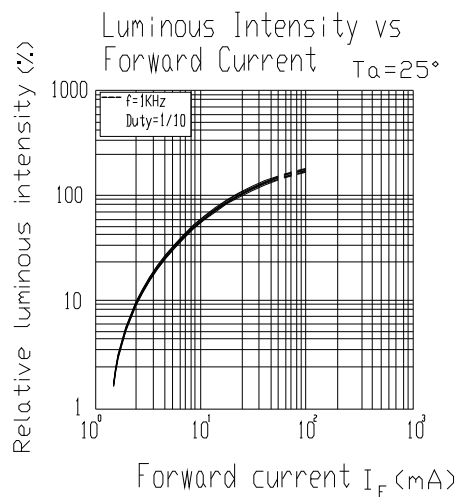
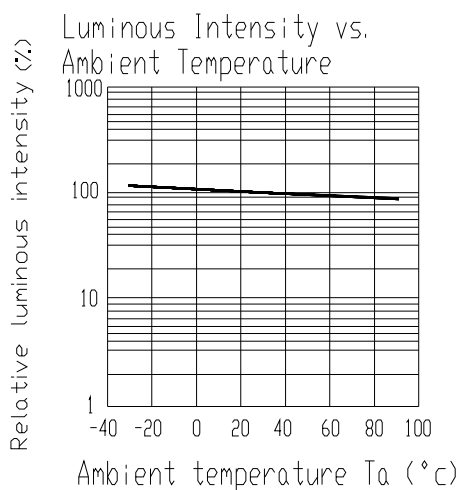
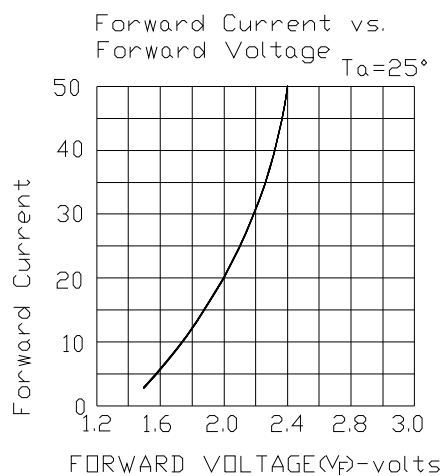
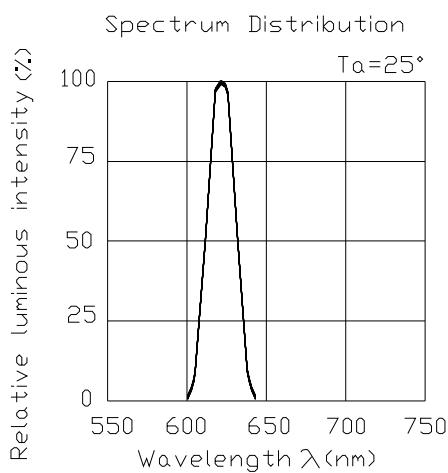
1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.

Radiation Diagram

IF=20 mA 50% Power Angle Angle =25°



Typical Electro-Optical Characteristics Curves



Forward Current Derating Curve

