

Feature

- Low Power Consumption
- High Intensity
- I.C. compatible

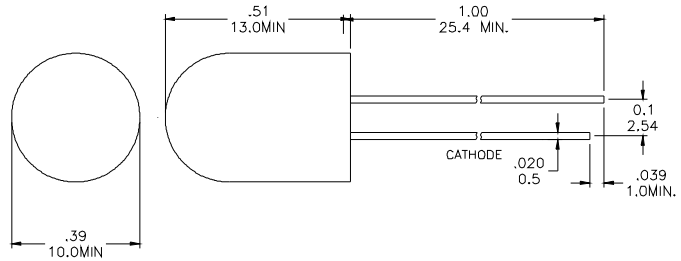
Applications

- 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: Yellow
Water Transparent Lens

Package Dimension



Tolerance ± $\frac{0.01}{0.25}$ Unit ± $\frac{\text{inch}}{\text{mm}}$

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	μA
Δθ	Half Intensity Angle	IF = 20 mA		25		Deg.
IV	Luminous Intensity	IF = 20 mA		2500		mcd.
λp	Peak Wavelength	IF = 20 mA		593		nm
λd	Dominant Wavelength	IF = 20 mA		590		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
	BIN 19	2500~3500	B	1.8~1.9	Y2	587~589
	BIN 20	3500~4900	C	1.9~2.0	Y3	589~591
			D	2.0~2.1	Y4	591~593
			E	2.1~2.2	Y5	593~595
			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°

