Light Emitting Diodes

Thru-Hole LEDs

ADP Series

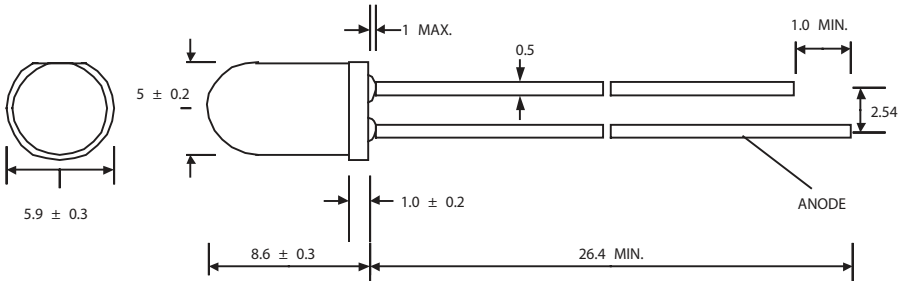
ADIVA Technology, Inc.

ADP0-51500-Sx

WHITE

INTRODUCTION

The Adiva Thru-Hole LED has a wide range of applications and is incapsulated in water clear epoxy resin with an 5mm diameter.



FEATURES

- High Luminous intensity,with a longer operation life.
- Excellent consistency on color,intensity and Forward Current.
- Rugged and reliable design gives high shock/vibration resistance.
- Excellent Solderability and resistance to soldering heat.
- High Reliability,100% Probing Test.
- Low thermal resistance

ABSOLUTE MAXIMUM RATINGS

Items	Symbols	Ratings	Unit
Operation Forward Current	I_f	30	mA
Reverse Current	Ir	100	uA
Operating Temperature Range	T_{op}	-25 ~ 80	C
Power Dissipation	P_D	100	mW
Peak Pulse Forward Current	PIf	100	mA
Storage Temp. Range	T_s	-30 ~ 100	C
Soldering Temperature	T_{sol}	* 260	C

ELECTRICAL-OPTICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_f	IF=20mA	2.9	--	3.5	V
CIE Value	x / y	IF=20mA	0.27/0.30	0.30/0.335	0.33/0.37	nm
Luminous Intensity	Iv	IF=20mA	6000	--	24000	mcd

SERIES STANDARD SPECIFICATIONS

Shape	Emitting Color	Part Number	Dominant CIE Value	Diffusion	IR(μA) IF RV=5V MAX	IR(μA) IF RV=5V Min	Reverse Voltage RV	Emitting Material	Viewing Angle Q (deg.)
5ø	White	ADP0-51500-Sx	0.30/0.335	W.C.	100	20	5 V	InGaN	15 - 30

Bin Ranking	S2	S3	S4	S5	Unit
Luminous Intensity	6000 - 9000	10000 - 15000	15000 - 20000	20000 - 24000	mcd

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Typical Electrical/Optical Characteristics Curve:

(25 ℃ Ambient Temperature Unless Otherwise noted)

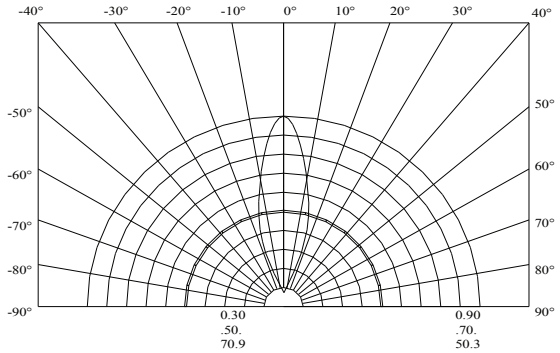

Fig1. Relative Intensity vs. Wavelength

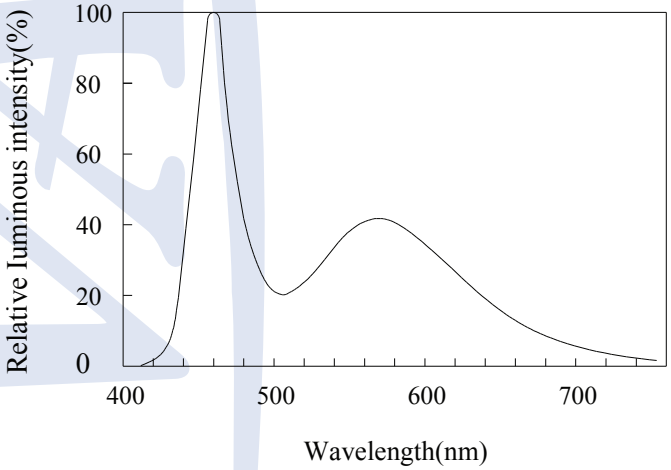

Fig2. Forward Current vs. Forward Voltage

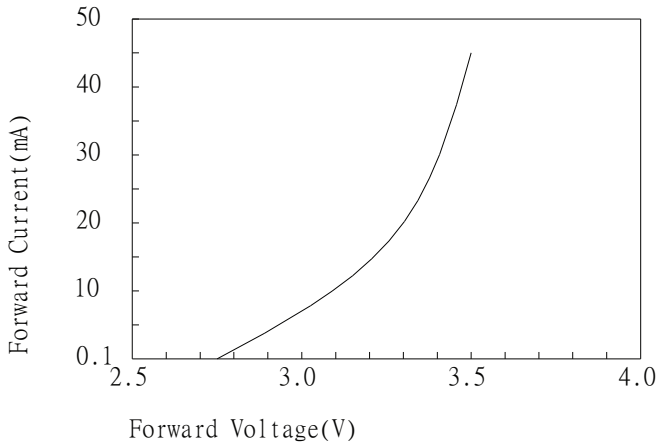

Fig3. Relative Intensity vs. Forward Current

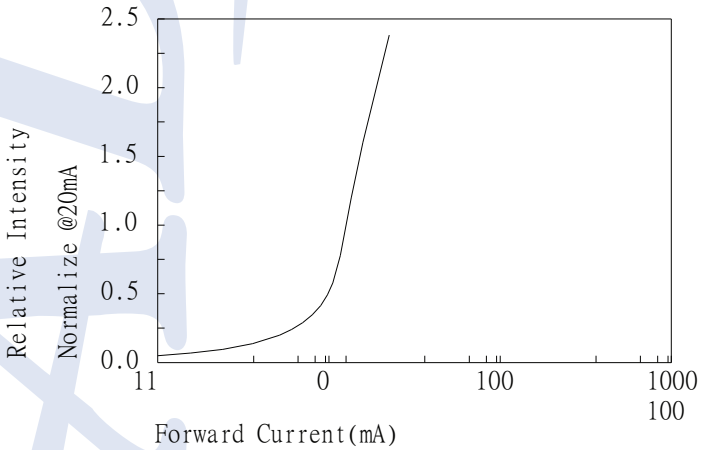

Fig4. Forward Voltage vs. Temperature