Light Emitting Diodes

Thru-Hole LEDs

ADP Series

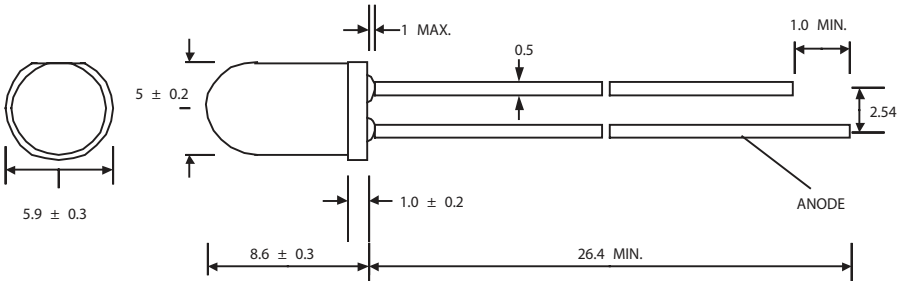
ADIVA Technology, Inc.

ADP2-51500-Sx

RED

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	1.9	--	2.5	V
Dominant Wavelength	λ_D	IF=20mA	620	--	635	nm
Luminous Intensity	Iv	IF=20mA	4000	--	18000	mcd

SERIES STANDARD SPECIFICATIONS

Shape	Emitting Color	Part Number	Wavelength nm	Diffusion	IR(μA) IF RV=5V MAX	IR(μA) IF RV=5V Min	Reverse Voltage RV	Emitting Material	Viewing Angle Q (deg.)
5ø	Red	ADP2-51500-Sx	620 - 635	W.C.	100	20	5 V	GaAlInP	15 - 30

Bin Ranking	S3	S4	S5		Unit
Luminous Intensity	4000 - 7000	8000 - 11000	12000 - 18000		mcd

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Typical Electrical/Optical Characteristics Curve:

(25 ℃ Ambient Temperature Unless Otherwise noted)

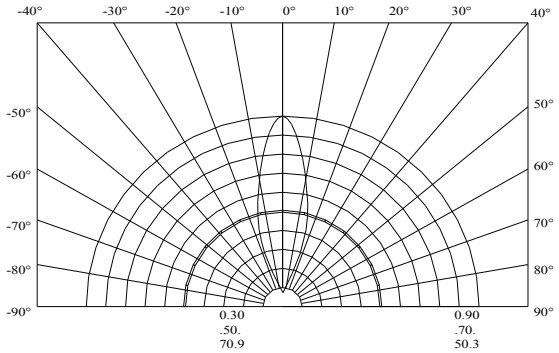
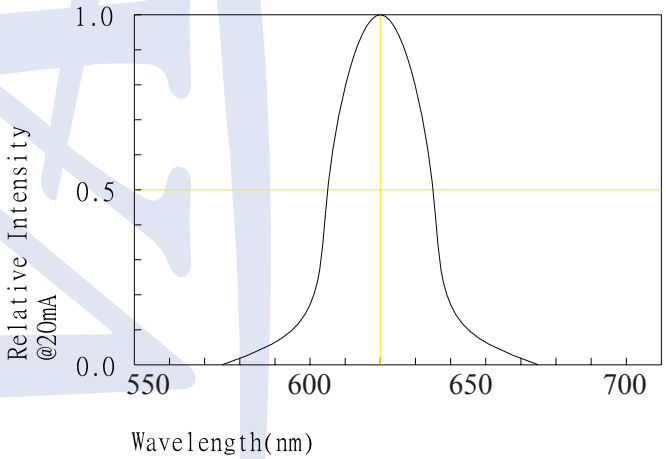


Fig2. Forward Current vs. Forward Voltage

Fig1. Relative Intensity vs. Wavelength



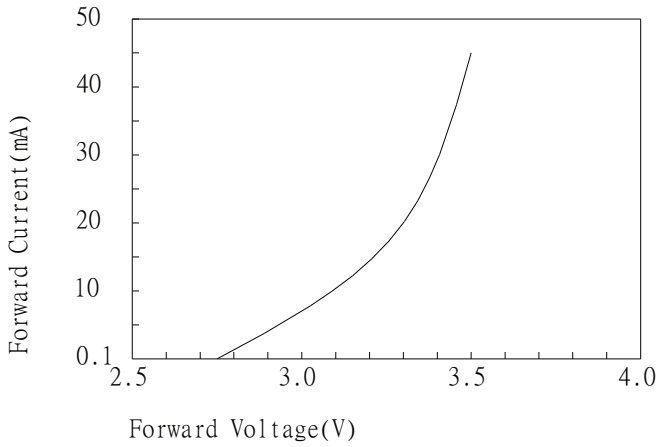


Fig3. Relative Intensity vs. Forward Current

Fig4. Forward Voltage vs. Temperature