LED700-xxAU Infrared LED Lamp

This series of LED700-xxAU is a GaAIAs LED mounted on a lead frame and encapsulated in various types of epoxy lens which offer different design settings.

On forward bias, it emits a high power radiation of typical 5mW with a peak wavelngth at 700 nm.

Specifications

- (1) Chip material AlGaAs
- (2) Peak wavelength 700 nm
- (3) Package clear epoxy resin
- (4) Lead frame soldered

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	110	mW	Ta=25°C
Forward Current	ΙF	50	mA	Ta=25°C
Pulse Forward Current	IFP	200	mA	Ta=25°C
Reverse Voltage	Vr	5	V	Ta=25°C
Operating Temperature	Topr	-30 ~ +85	°C	Ta=25°C
Storage Temperature	Tstg	-30 ~ +100	°C	
Soldering Temperature	Tsol	260	°C	

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	Vf	IF=20mA		1.9	2.3	V
Reverse Current	I R	Vr=5V			10	uA
Total Radiated Power	Po	IF=20mA	3.0	5.0		mW
Peak Wavelength	l P	IF=20mA		700		nm
Half Width	DI	IF=20mA		20		nm
Rise Time	tr	IF=20mA		80		ns
Fall Time	tf	IF=20mA		80		ns

Characteristics of Brightness [Ta=25°C]

Туре	Viewing	Radiant Intensity IF=20mA unit: mW/sr			Outer Dimension	
	Half Angle	Minimum	Typical	Maximum	Dimension	Figure
L700-01AU	±10°		30		f5	1
L700-02AU	±5°		45		f5	2
L700-03AU	±15°		25		f 5	3
L700-04AU	±20°		15		f5	4
L700-05AU	±40°		2		f5	5
L700-06AU	±6°		40		f5	6
L700-09AU	±25°(Long)		20		f 5	7
	±15°(Short)				Oval '	1
L700-33AU	±15°		10		f3	9
L700-36AU	±30°		5		f3	10

‡ ‡

Radiant Intensity is measured by Tektronix J-16. Total Radiated Power is measured by Photodyne #500.