

L850F-06-55

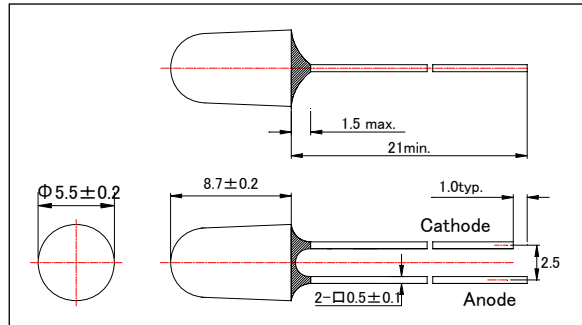
Infrared LED Lamp for High Current Drive

L850F-06-55 is an AlGaAs LED mounted on a lead frame with a clear epoxy lens. On forward bias it emits a spectral band of radiation, which peaks at 850nm. These devices are intended to be operated at pulsed current of 2A under max.4.3V for stable long life.

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L850F-06-55
3. Chip:
 - Chip material: AlGaAs
 - Dimension: 550um x 550um
 - Peak Wavelength: 850nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	150	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	2000	mA
Reverse Voltage	VR	5	V
Operating Temperature	TOPR	-30 ~ +85	°C
Storage Temperature	TSTG	-30 ~ +100	°C
Soldering Temperature**	TSOL	260	°C

* Duty=1% and Pulse Width=10us.

** Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF VFP	IF=50mA DC		1.42	1.50	V
		IFP=1A		3.2	3.5	
		IFP=2A		3.6	4.3	
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA DC	18	20		mW
		IF=100mA, tp=20ms		40		
Radiant Intensity**	IE	IF=50mA DC	90	120		mW/sr
		IF=100mA, tp=20ms		240		
Peak wavelength	λP	IF=50mA DC	840	850	860	nm
Half Width	Δλ	IF=50mA DC		40		nm
Viewing Half Angle	θ1/2	IF=50mA DC		±8		deg
Rise Time	tr	IF=50mA DC		15		ns
Fall Time	tf	IF=50mA DC		10		ns

* Measured by Photodyne #500

** Measured by Tektronix J-6512

