

**L850-40C00**

Ceramics Stem Type LED with Epoxy Resin Lens

L850-40C00 is an AlGaAs LED mounted on ceramic stem and sealed with clear epoxy resin. On forward bias, it emits a spectral band of radiation which peaks at 850nm.

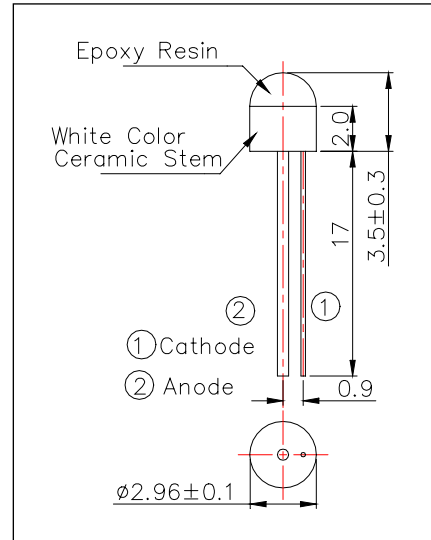
<Features>

- Wide Viewing Angle
- High Reliability

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L850-40C00
3. Chip:
  - Chip material: AlGaAs
  - Peak Wavelength: 850nm
4. Package
  - Type: Ceramic Stem
  - Lens: Φ3 Epoxy Resin Lens

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	160	mW	Ta=25°C
Forward Current	IF	100	mA	Ta=25°C
Pulse Forward Current*	IFP	1000	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +100	°C	
Storage Temperature	TSTG	-30 ~ +110	°C	
Soldering Temperature**	TSOL	260	°C	

\* Duty=1% and Pulse Width=10μs.

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

Electro-Optical Characteristics						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.45	1.70	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA	16	20		mW
Radiant Intensity**	IE	IF=50mA		15		mW/sr
Peak Wavelength	λP	IF=50mA	840	850	860	nm
Half Width	Δλ	IF=50mA		40		nm
Viewing Half Angle	θ1/2	IF=50mA		±50		deg
Rise Time	tr	IF=50mA		30		ns
Fall Time	tf	IF=50mA		25		ns

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

