L890-40T42

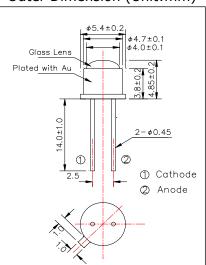
Stem Type LED with High Beam

L890-40T42 is an AlGaAs LED mounted on a TO-18 stem with an unspherical glass ball lens. It is designed for high beam use.

On forward bias, it emits a spectral band of radiation which peaks at 880nm.

<Features>

- High Radiated Intensity
- High Reliability
- <Specifications>
- 1. Product Name: Infrared LED Lamp
- 2. Type Number: L890-40T42
- 3. Chip:
- Chip material: AlGaAs
- Peak Wavelength: 880nm
- 4.Package
 - Type: TO-18 Stem
 - Lens: Unspherical Glass Lens
 - Cap: Gold Plated



Absolute Maximum Ratings									
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature					
Power Dissipation	PD	150	mW	Ta=25°C					
Forward Current	IF	100	mA	Ta=25°C					
Pulse Forward Current*	IFP	500	mA	Ta=25°C					
Reverse Voltage	VR	5	V	Ta=25°C					
Operating Temperature	TOPR	-30 ~ +100	S						
Storage Temperature	TSTG	-30 ~ +110	S						
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 [Ta=25°C]								
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		7		mW		
Radiant Intensity**	IE	IF=50mA		50		mW/sr		
Peak Wavelength	λP	IF=50mA	865	880	895	nm		
Half Width	Δλ	IF=50mA		65		nm		
Viewing Half Angle	θ1/2	IF=50mA		± 6		deg		
Rise Time	tr	IF=50mA		800		ns		
Fall Time	tf	IF=50mA		400		ns		

* Measured by Photodyne #500

** Measured by Tektronix J-6512



Outer Dimension (Unit:mm)