

L850-36UP (LN850-36UP) Infrared LED Lamp

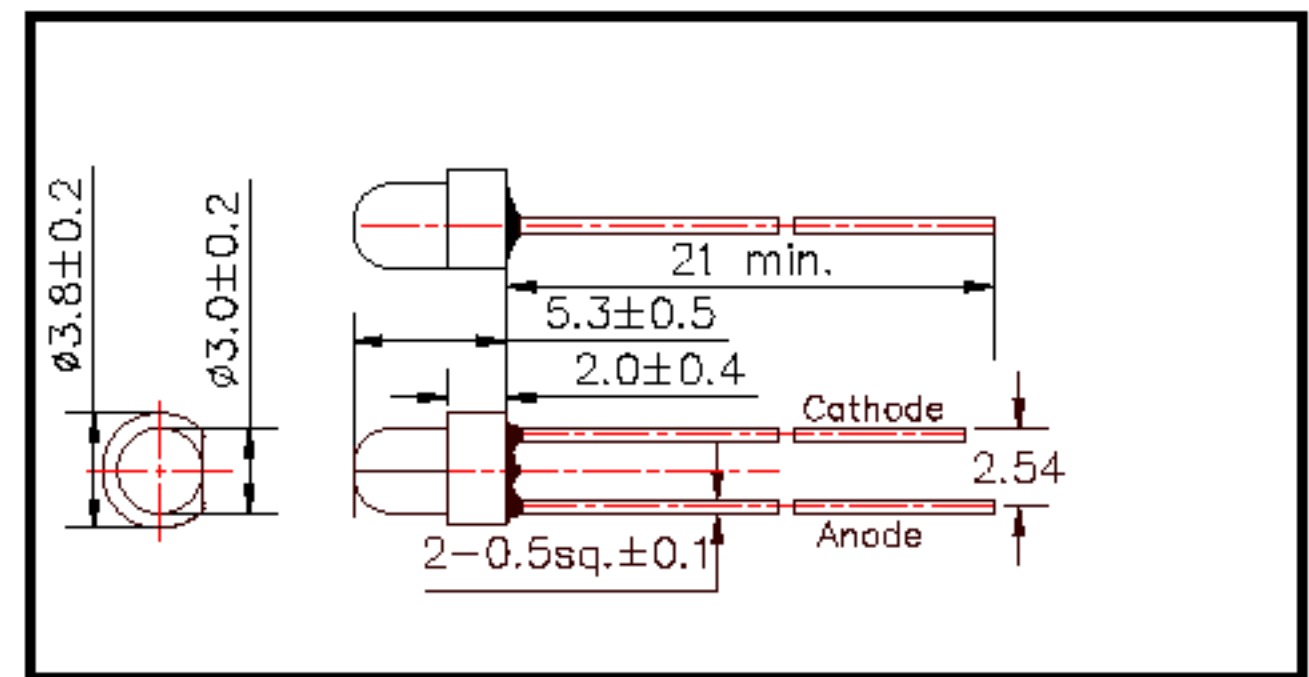
L850-36UP is an AlGaAs LED mounted on a lead frame with a clear epoxy lens.

On forward bias it emits a spectral band of radiation, which peaks at 850nm.

◆ Specifications

1)Product Name	Infrared LED Lamp
2)Type No.	L850-36UP
3)Chip	
(1)Chip Material	AlGaAs
(2)Chip Size	0.4mm*0.4mm
(3)Peak Wavelength	850nm typ.
4)Package	
(1)Type	Φ3mm clear molding
(2)Resin Material	Epoxy Resin

◆ Outer dimension (Unit : mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	160	mW	T _a =25°C
Forward Current	I _F	100	mA	T _a =25°C
Pulse Forward Current	I _{FP}	1000	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =50mA DC		1.50	1.70	V
		I _F =100mA, t _p =20ms		1.55	1.90	
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =50mA DC	18.0	22.0		mW
		I _F =100mA, t _p =20ms		44.0		
Radiant Intensity	I _E	I _F =50mA DC	20	30		mW/sr
		I _F =100mA, t _p =20ms		60		
Peak Wavelength	λ _P	I _F =50mA DC	840	850	860	nm
Half Width	Δλ	I _F =50mA DC		40		nm
Viewing Half Angle	θ _{1/2}	I _F =50mA DC		±30		deg.
Rise Time	t _r	I _F =50mA DC		15		ns
Fall Time	t _f	I _F =50mA DC		10		ns

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512

MUEVO-Vertrieb

Joseph-Mäurer-Straße 18 • 51688 Wipperfürth • Germany

+49 (0)2267 828 339 • Fax +49 (0)2267 829 175

sales@muevo-technics.com