

# L850/940/1300-40C52

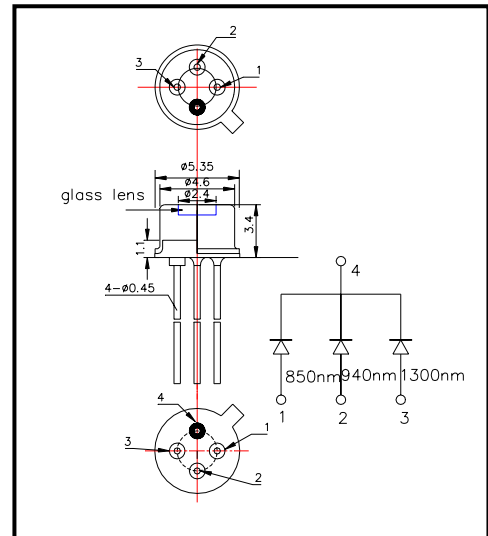
## multi-wavelength LED

◆ Outer dimension (Unit: mm)

L850/940/1300-40C52 consists of an AlGaAs (850, 940nm) and InGaAsP (1300nm) LED mounted on TO-18 4pins type stem with a flat glass lens. Chips are connected as cathode common.

### ◆ Specifications

- |                     |                           |
|---------------------|---------------------------|
| 1) Product Name     | Multi-wavelength LED Lamp |
| 2) Type No.         | L850/940/1300-40C52       |
| 3) Chip             |                           |
| (1) Chip material   | AlGaAs                    |
| (2) Peak wavelength | 850, 940, 1300nm          |
| 4) Package          |                           |
| (1) Stem            | TO-18 4pin type           |
| (2) Lens            | Φ2.4 Flat Glass           |



### ◆ Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value			Unit
		850	940	1300	
Power Dissipation	PD	160	140	120	mW
Forward Current	IF	100	100	100	mA
Pulse Forward Current	IF	1000	1000	1000	mA
Reverse Voltage	VR	5			V
Operating Temperature	TOPR	-20 ~ +80			°C
Storage Temperature	TSTG	-30 ~ +100			°C
Soldering Temperature	TSOL	240			°C

‡Soldering condition: Soldering condition must be completed within 3 seconds at 240°C and is allowed in the area apart 3mm from the bottom of the lamp.

### ◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Wavelength	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	850	IF=50mA		1.50	1.70	V
		940			1.30	1.45	
		1300			1.10	1.40	
Reverse Current	IR		VR=5V			10	u A
Total Output Power	PO	850	IF=50mA		16.0		mW
		940			12.0		
		1300			2.0		
Peak Wavelength	λP	850	IF=50mA	835	850	865	nm
		940		930	940	955	
		1300		1250	1300	1350	
Half Wavelength	Δλ	850	IF=50mA		40		nm
		940			50		
		1300			100		

‡Total Radiated Power is measured by Photodyne #500

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