Marubeni

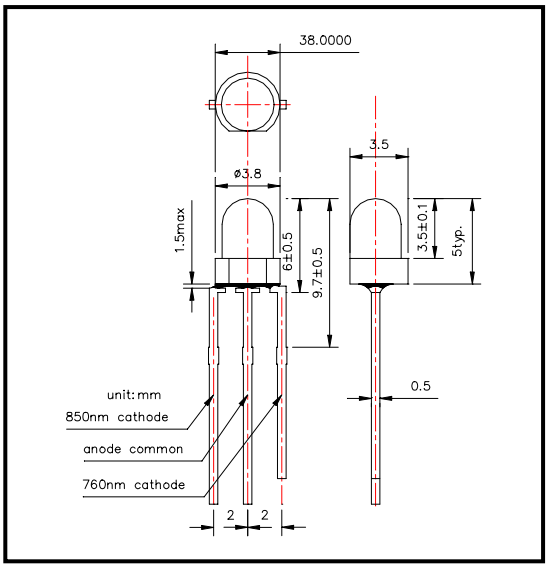
L760/850-38 Bi-Color LED for medical analysis

Bi-color LED of L760/850-38 consists of DDH structure AlGaAs LEDs mounted on a lead frame with a clear epoxy lens.
On forward bias it emits a band of visible light, which peaks 760nm and 850nm by anode common.

♦Features

1) High Reliability
2) High Power
3) Anode Common

♦Outer dimension (Unit: mm)



♦Specifications

1) Product Name	Bi-color LED
2) Type No.	L760/850-38
3) Chip	
(1) Chip Material	AlGaAs (DDH structure)
(2) Peak Wavelength	760nm and 850nm typ.
4) Package	
(1) Type	Φ3mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

♦Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		760nm	850nm		
Power Dissipation	PD	150	150	mW	Ta=25°C
Forward Current	IF	75		mA	Ta=25°C
Reverse Voltage	IR	10		V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85		°C	
Storage Temperature	TSTG	-30 ~ +100		°C	
Soldering Temperature	TSOL	260		°C	

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

♦Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			760nm	850nm	760nm	850nm	760nm	850nm	
Forward Voltage	VF	IF=50mA			1.85	1.55	2.00	1.70	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power	Po	IF=50mA	10.0	15.0	16.0	18.0			mW
Radiant Intensity	Ie	IF=50mA	10.0	15.0	18.0	20.0			mW/sr
Peak Wavelength	λP	IF=50mA	740	830	760	850	780	870	nm
Half Width	Δλ	IF=50mA			30	35			nm
Viewing Half Angle	θ 1/2	IF=50mA			±40				deg.

‡Total Radiated Power is measured by Photodyne #500
‡Radiant Intensity is measured by Tektronix J-6512

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