

SMT735/890

High Performance Bi-color TOP LED

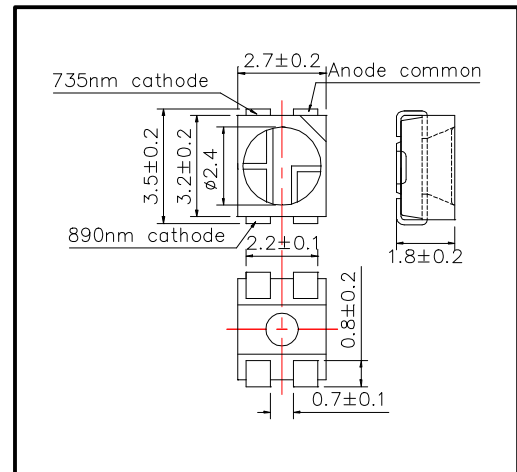
Bi-color LED of SMT735/890 consists of AlGaAs LEDs mounted on the lead frame as TOP LED package and is sealed with epoxy resin.

It emits a spectral band of radiation at 735nm and 890nm at anode common.

Specifications

- 1) Product Name Bi-color TOP LED
- 2) Type No. SMT735/890
- 3) Chip
 - (1) Chip Material AlGaAs
 - (2) Peak Wavelength 735nm/890nm
- 4) Package
 - (1) Lead Frame Die Silver Plated
 - (2) Package Resin PPA Resin
 - (3) Lens Epoxy Resin

Outer dimension(Unit:mm)



Absolute Maximum Rating

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		735nm	890nm		
Power Dissipation	P _D	100	150	mW	T _a =25°C
Forward Current	I _F	50	100	mA	T _a =25°C
Reverse Voltage	V _R	5		V	T _a =25°C
Operating Temperature	T _{OPR}	-20 ~ +80		°C	
Storage Temperature	T _{STG}	-30 ~ +80		°C	
Soldering Temperature	T _{SOL}	240		°C	

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

‡Soldering condition: Soldering condition must be completed within 3 seconds at 230°C

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			735nm	890nm	735nm	890nm	735nm	890nm	
Forward Voltage	V _F	I _F =50mA			1.90	1.45	2.30	1.70	V
Reverse Current	I _R	V _R =5V					10		uA
Total Radiated Power	P _O	I _F =50mA	5.0	4.0	10.0	8.0			mW
Radiant Intensity	I _E	I _F =50mA	2.0	2.0	5.0	4.0			mW/sr
Peak Wavelength	λ _P	I _F =50mA	615	865	735	880	755	895	nm
Half Width	Δλ	I _F =50mA			20	75			nm
Viewing Half Angle	Q _{1/2}	I _F =50mA			±55				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.

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