

SMT660/940

High Performance Bi-color TOP LED

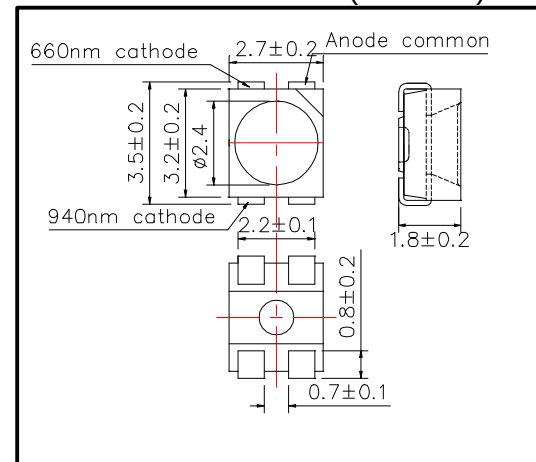
Bi-color LED of SMT660/940 consists of DDH AlGaAs and GaAs LEDs mounted on the lead frame as TOP LED package and is sealed with epoxy resin.

It emits a spectral band of radiation at 660nm and 940nm at anode common.

Specifications

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|---------------------|------------------|
| 1) Product Name | Bi-color TOP LED |
| 2) Type No. | SMT660/940 |
| 3) Chip | |
| (1) Chip Material | AlGaAs/GaAs |
| (2) Peak Wavelength | 660nm/940nm |
| 4) Package | |
| (1) Lead Frame Die | Silver Plated |
| (2) Package Resin | PPA Resin |
| (3) Lens | Epoxy Resin |

Outer dimension (Unit: mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		660nm	940nm		
Power Dissipation	P _D	75	80	mW	T _a =25°C
Forward Current	I _F	30	50	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	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 240°C

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			660nm	940nm	660nm	940nm	660nm	940nm	
Forward Voltage	V _F	I _F =20mA			1.90	1.20	2.20	1.40	V
Reverse Current	I _R	V _R =5V					10		uA
Total Radiated Power	P _O	I _F =20mA	1.5	2.0	2.5	3.0			mW
Peak Wavelength	λ _P	I _F =20mA	650	930	660	940	670	960	nm
Half Width	Δλ	I _F =20mA			20	50			nm
Viewing Half Angle	Q _{1/2}	I _F =20mA			±55				deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.

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