

PRELIMINARY

SMT660-24

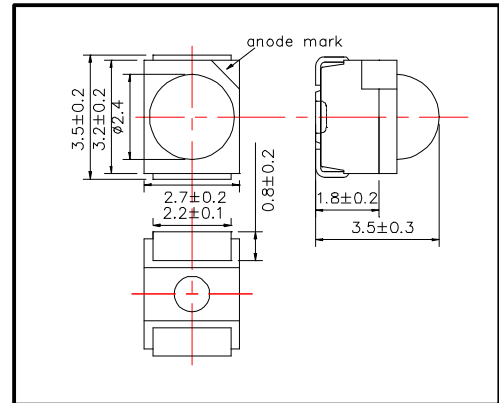
High Performance Red color TOP LED with lens

SMT660-24 consists of an AlGaAs LED mounted on the lead frame as TOP LED package and is 500mcd typical of Brightness through lens.

Die is encapsulated by silicone and covered by heat proof lens.

It emits a spectral band of radiation at 660nm.

Outer dimension (Unit: mm)



Specifications

1) Product Name	TOP LED
2) Type No.	SMT660-24
3) Chip	
(1) Chip Material	AlGaAs
(2) Peak Wavelength	660nm typ.
4) Package	
(1) Lead Frame Die	Silver Plated
(2) Package Resin	PPA Resin
(3) Lens	Silicone, Epoxy, Styrene

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a =25°C
Forward Current	I _F	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 230°C

Electro-Optical Characteristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		1.90	2.30	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		3.3		mW
Brightness	I _v	I _F =20mA	200	500		mcd
Peak Wavelength	λ _P	I _F =20mA	650	660	670	nm
Half Width	Δλ	I _F =20mA		20		nm
Viewing Half Angle	Q _{1/2}	I _F =20mA		±15		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.

EPITEX INC. : 4, Nishiaketa-Cho, Higashi-Kujyou, Minami-Ku, Kyoto, Japan

Tel.: ++81-75-682-2338 Fax: ++81-75-682-2267

e-mail: sales-dep@epitex.com

<http://www.epitex.com>