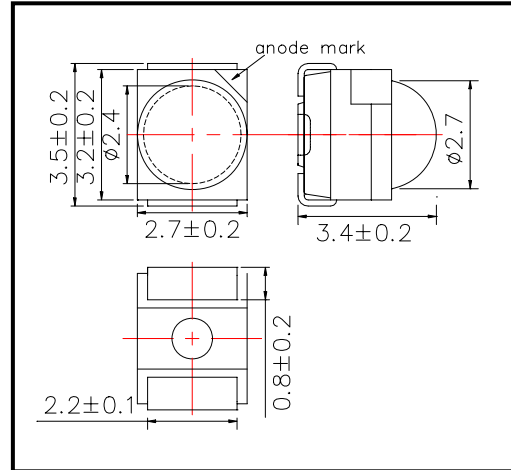


SMT670-24 High Performance Red Color TOP IR LED with Lens

SMT670-24 consists of an AlGaAs LED mounted on the lead frame as TOP LED package with plastic ball lens and is 6mW of total radiated power and 15mW/sr of radiant intensity. It emits a spectral band of radiation at 670nm.

◆ Outer dimension (Unit: mm)



◆ Specifications

- | | |
|---------------------|--------------------------|
| 1) Product Name | TOP LED |
| 2) Type No. | SMT670-24 |
| 3) Chip | |
| (1) Chip Material | AlGaAs |
| (2) Peak Wavelength | 670nm typ. |
| 4) Package | |
| (1) Lead Frame Die | Silver Plated |
| (2) Package Resin | PPA Resin |
| (3) Lens | Plastics Lens Φ 2.7 |

◆ Absolute Maximum Rating

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	100	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		1.80	2.30	V
Reverse Current	I _R	V _R =5V			10	uA
Total Radiated Power	P _O	I _F =20mA		6		mW
Radiant Intensity	I _E	I _F =50mA		15		mW/sr
Peak Wavelength	λ _P	I _F =20mA	660	670	680	nm
Half Width	$\Delta\lambda$	I _F =20mA		20		nm
Viewing Half Angle	θ _{1/2}	I _F =20mA		±15		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512