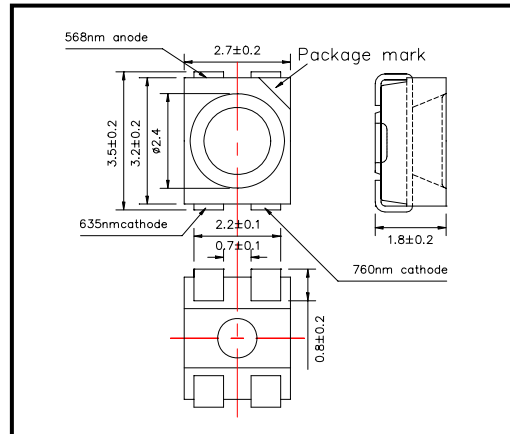


SMT430/505/568

SMT430/505/568 consists of an InGaN and AlGaInP LEDs mounted on the lead frame as TOP LED package and is sealed with epoxy resin.
It emits a spectral band of radiation at 430nm, 505nm and 568nm.

◆ Outer dimension (Unit:mm)



◆ Specifications

- | | |
|---------------------|---------------------|
| 1) Product Name | Tri-color TOP LED |
| 2) Type No. | SMT430/505/568 |
| 3) Chip | |
| (1) Chip Material | InGaN, AlGaInP |
| (2) Peak Wavelength | 430nm, 505nm, 568nm |
| 4) Package | |
| (1) Lead Frame Die | Silver Plated |
| (2) Package Resin | PPA Resin |
| (3) Lens | Epoxy Resin |

◆ Absolute Maximum Rating [Ta=25°C]

Item	Symbol	Maximum Rated Value			Unit
		430nm	505nm	568nm	
Power Dissipation	P _D	125		100	mW
Forward Current	I _F	30		50	mA
Reverse Voltage	V _R		5		V
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 [Ta=25°C]

Item	Symbol	Condition	Minimum			Typical			Maximum			Unit
			430	505	568	430	505	568	430	505	568	
Forward Voltage	V _F	I _F =20mA				3.8	3.5	2.0	4.8	4.3	2.3	V
Reverse Current	I _R	V _R =5V							10			uA
Total Radiated Power	P _O	I _F =20mA				0.3	1.0	0.2				mW
Radiant Intensity	I _E	I _F =20mA										mW/sr
Peak Wavelength	λ _P	I _F =20mA	420	495	560	430	505	565	440	515	575	nm
Half Width	Δλ	I _F =20mA				50	40	15				nm
Viewing Half Angle	θ _{1/2}	I _F =20mA					±55					deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.