

SMT-RGB

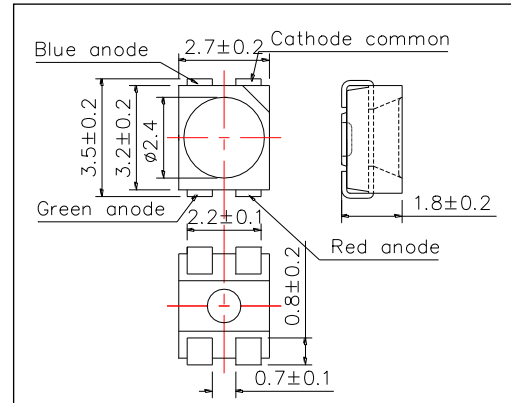
High Bright RGB TOP LED

SMT470, 525, 635 consists of an RGB LEDs mounted on the lead frame as TOP LED package and is sealed with epoxy resin. It emits a spectral band of radiation at 470, 525 and 635nm at cathode common.

<Specifications>

1. Product Name: TOP RGB LED
2. Type Number: SMT-RGB
3. Chip:
 - Chip Material: InGaN, AlGaInP
 - Peak Wavelength: 470,525,635nm
4. Package
 - Lead Frame Die: Silver Plated
 - Package Resin: PPA Resin
 - Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings [Ta=25°C]					
Item	Symbol	Maximum Rated Value			Unit
		470nm	525nm	635nm	
Power Dissipation	PD	120			mW
Forward Current	IF	30	30	50	mA
Reverse Voltage	VR	5			V
Operating Temperature	TOPR	-20 ~ +80			°C
Storage Temperature	TSTG	-30 ~ +80			°C
Soldering Temperature*	TSOL	240			°C

* Soldering condition must be completed within 3 second at 230 °C.

Electro-Optical Characteristics [Ta=25°C]												
Item	Symbol	Condition	Minimum			Typical			Maximum			Unit
			470	525	635	470	525	635	470	525	635	
Forward Voltage	VF	IF=20mA				3.8	3.5	2.0	4.3	4.3	2.3	V
Reverse Current	IR	VR=5V							10			uA
Total Radiated Power*	PO	IF=20mA				4.5	4.0	5.0				mW
Brightness	IV	IF=20mA	200	400	300	400	700	500				mcd
Peak wavelength	λP	IF=20mA	460	515	630	470	525	640	480	535	650	nm
Half Width	Δλ	IF=20mA				25	40	20				nm
Viewing Half Angle	θ1/2	IF=20mA				±55						deg

* Measured by Photodyne #500

