

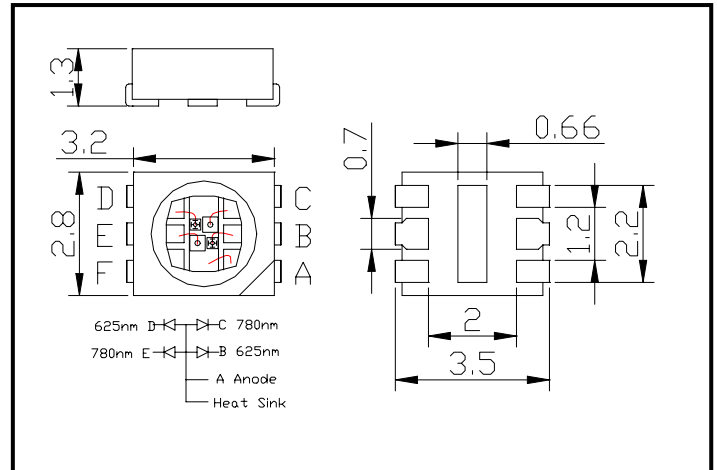
# SMTT2\*625/2\*780-d

TOP LED with heat sink

SMTT2\*625/2\*780-d consists of 2chips of red color and 2chips of IR LED mounted on TOP LED with heat sink type package. Red color is 5.5mW on 625nm and IR is 6.5mW on 780nm.

**◆ Specification**

1) Product Name	TOP IR LED
2) Type No.	SMTT2*625/2*780-d
3) Chip	
(1) Chip Material	625nm: AlGaInP 780nm: AlGaAs
(2) Dimension	625nm-250um 780nm-350um
(3) Peak Wavelength	625/780nm typ.
4) Package	
(1) Lead Frame Die	Silver Plated
(2) Package Resin	PPA Resin
(3) Lens	Epoxy Resin

**◆ Outer dimension (Unit:mm)**

**◆ Absolute Maximum Rating**

Item	Symbol	Maximum Rated Value		Unit	Ambient Temperature
		625nm	780nm		
Power Dissipation	P <sub>D</sub>	125	90	mW	T <sub>a</sub> =25°C
Forward Current	I <sub>F</sub>	50	50	mA	T <sub>a</sub> =25°C
Pulse Forward Current	I <sub>FP</sub>	100	200	mA	T <sub>a</sub> =25°C
Reverse Voltage	V <sub>R</sub>	5		V	T <sub>a</sub> =25°C
Operating Temperature	T <sub>OPR</sub>	-20 ~ +80		°C	
Storage Temperature	T <sub>STG</sub>	-30 ~ +80		°C	
Soldering Temperature	T <sub>SOL</sub>	255		°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 10seconds at 255°C

**◆ Electro-Optical Characteristics [T<sub>a</sub>=25°C]**

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			625	780	625	780	625	780	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA			2.2	1.6	2.4	1.8	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V					10		uA
Total Radiated Power	P <sub>O</sub>	I <sub>F</sub> =20mA			5.5	6.5			mW
Radiant Intensity	I <sub>E</sub>	I <sub>F</sub> =20mA			2	3			mW/sr
Brightness	I <sub>V</sub>	I <sub>F</sub> =20mA			-	-			
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> =20mA			625	780			nm
Half Width	Δλ	I <sub>F</sub> =20mA			15	35			nm
Viewing Half Angle	θ <sub>1/2</sub>	I <sub>F</sub> =20mA			±55				deg.

‡Total Radiated Power is measured by S3584-08.

‡Radiant Intensity is measured by Tektronix J-6512.

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