

SMT430

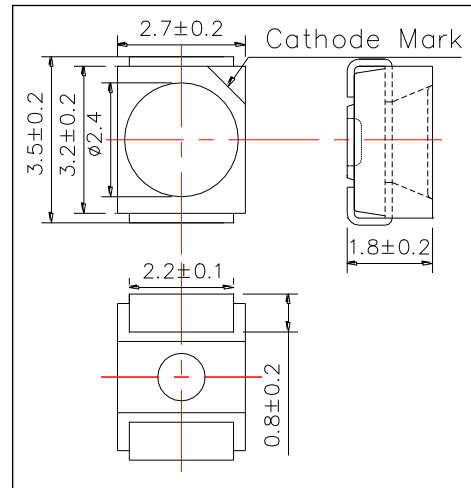
High Performance Blue Color TOP LED

SMT430 consists of an InGaN LEDs mounted on the lead frame as TOP LED package and is 11mW typical of Total Radiated Power. It emits a spectral band of radiation at 430nm.

<Specifications>

1. Product Name: TOP LED
2. Type Number: SMT430
3. Chip:
 - Chip Material: InGaN
 - Peak Wavelength: 430nm
4. Package
 - Lead Frame Die: Silver Plated
 - Package Resin: PPA Resin
 - Lens: Epoxy or Silicone Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	190	mW	Ta=25°C
Forward Current	IF	50	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Thermal Resistance	Rthja	250	K/W	
Junction Temperature	Tj	100	°C	
Operating Temperature	TOPR	-40 ~ +80	°C	
Storage Temperature	TSTG	-40 ~ +80	°C	
Soldering Temperature*	TSOL	250	°C	

* Soldering condition must be completed within 5 second at 250 °C.

Electro-Optical Characteristics [Ta=25°C typ.]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.3	4.0	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA		11		mW
Brightness**	IV	IF=20mA		35		mcd
Wavelength	Peak	IF=20mA	420	430	440	nm
	Dominant			440		
Half Width	Δλ	IF=20mA		20		nm
Viewing Half Angle	θ1/2	IF=20mA		±60		deg

* Measured by S3584-08

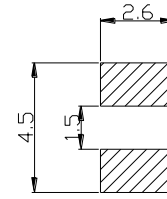
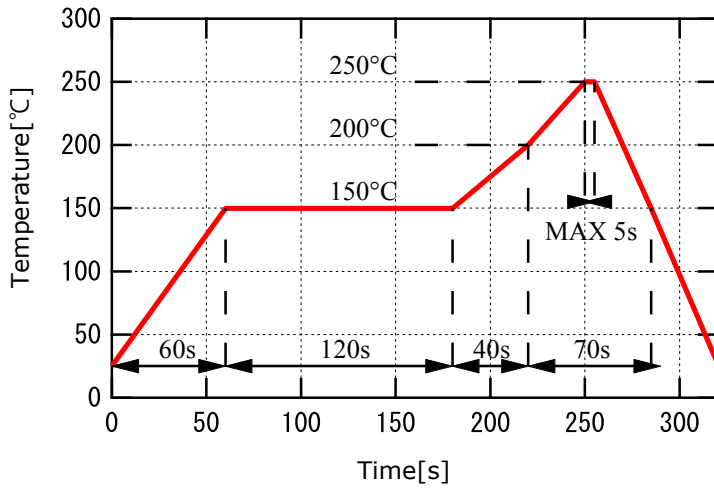
** Measured by Tektronix J-16



SMD Application

IR-Reflow Soldering Profile for lead free soldering

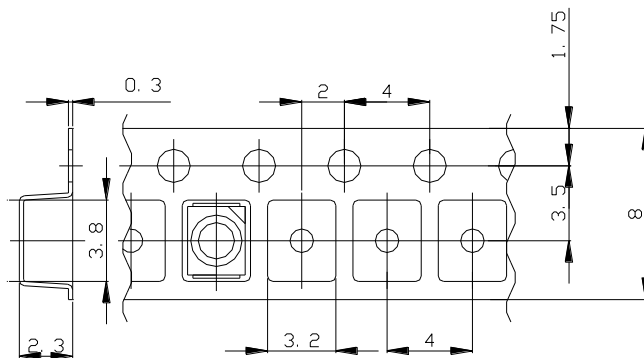
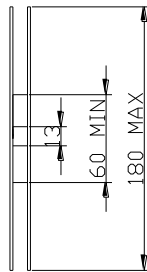
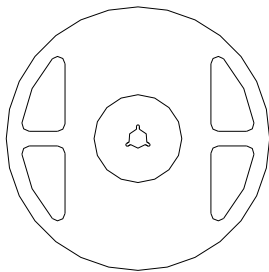
Recommended Land Layout (Unit:mm)



Don't put stress on SMD and a circuit board after soldering

SMD Packing

Tape and Reel Dimensions (Unit:mm)



Feeding Direction -->

Wrapping

Moisture barrier bag aluminum laminated film with a desiccant to keep out the moisture absorption during the transportation and storage.