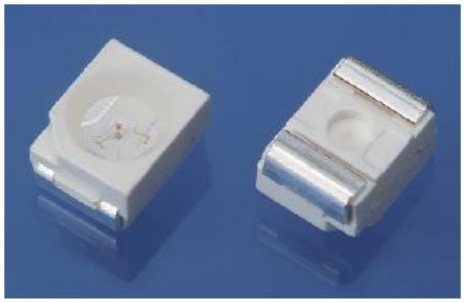
✧ Features:



- 3.5mm×2.8mm SMT LED， 1.90mm thickness
- PLCC-2 package
- White package
- Suitable for all SMT assembly and solder process
- Available on tape and reel

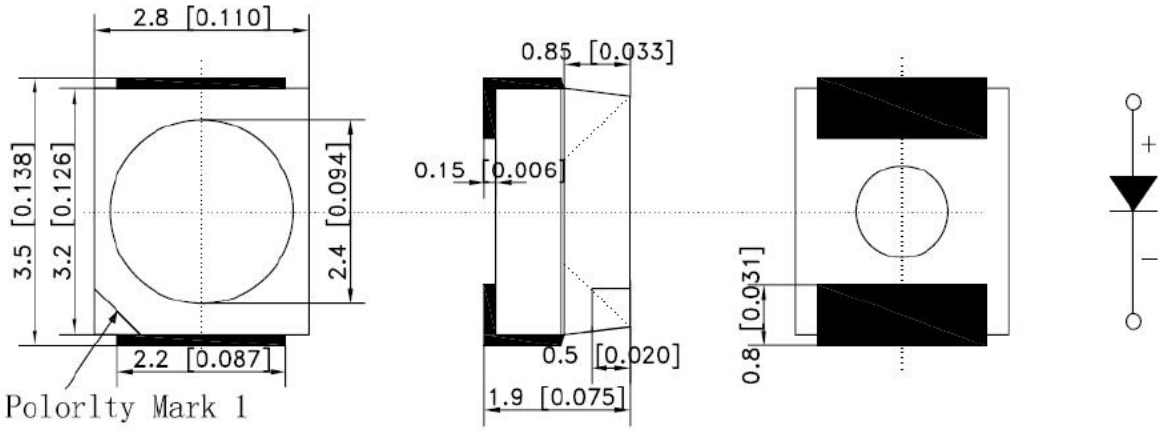
✧ Description

The Violet source color devices are made with InGaN on sapphire Light Emitting Diode.

✧ Application

- Optical indicator
- Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- Light pipe application
- General use

✧ Package Dimensions



NOTES:

1. All dimensions are in millimeter
2. Tolerance is±0.2mm unless other specified;
3. Specifications are subject to change without notice.

Emitted Color	Len's Color	Chip Material
Violet	Water clear	InGaN

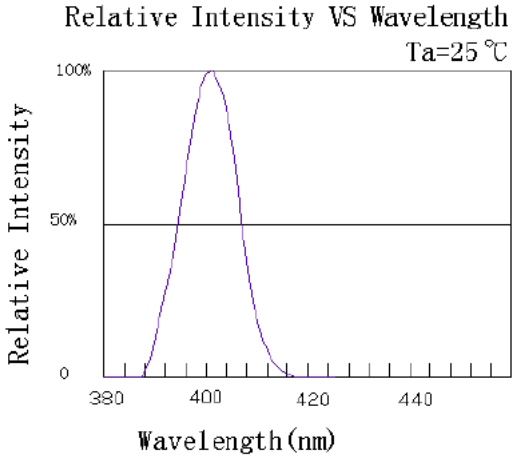
✧ Absolute Maximum Ratings(Ta=25℃)

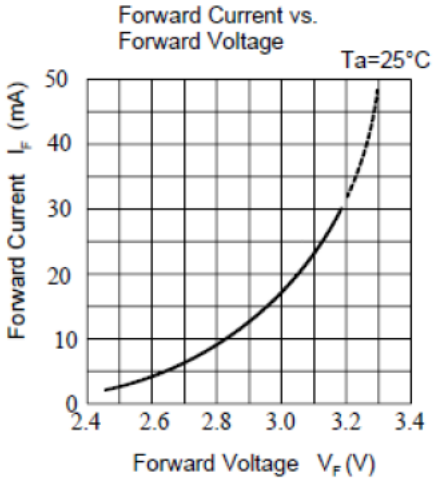
Item	Symbol	Maximum	Unit
Power Dissipation	PD	114	mW
Continuous Forward Current	I_{Fmax}	30	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I_{FP}	160	mA
Peverse Voltage	V_R	5	V
Operating Temperature Range	T_{opr}	-40 to+85	℃
Storage Temperature Range	T_{stg}	-40 to+85	℃

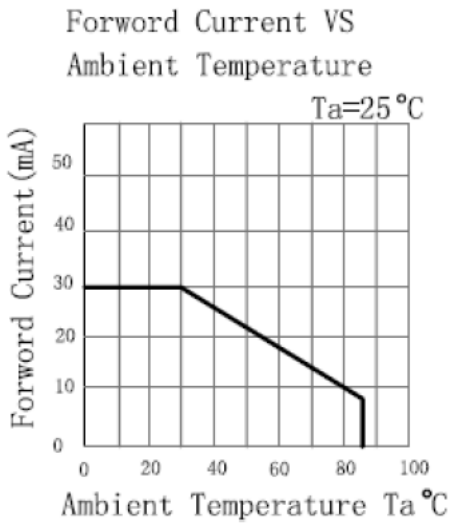
✧ Electrical/Optical Characteristics(Ta=25℃)

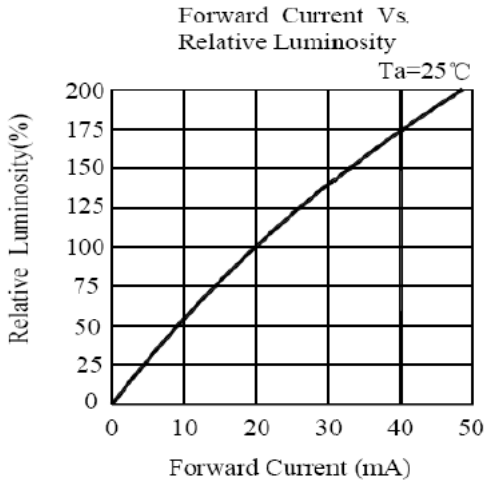
Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V_F	I_F=20mA	2.8	3.2	3.6	V
Luminous Intensity	I_V	I_F=20mA	50	100	150	mcd
luminous power	Ee	I_F=20mA	5	10	15	mW
Wavelength The	λ	IF=20mA	400	--	405	nm
Chromaticity Coordinates	X	I_F=20mA	--	--	--	--
	Y	I_F=20mA	--	--	--	--
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	--	120-	--	Deg
Capacitance	C	$V_{F=0V}$,$f_{=1MHZ}$	--	110	--	pF
Reverse Current	IR	V_R =5V	--		10	uA

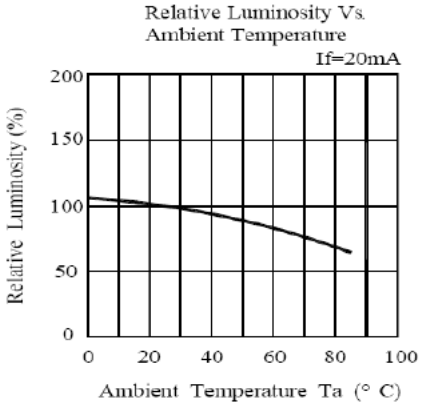
✧ Typical Electro-Optical Characteristics Curves

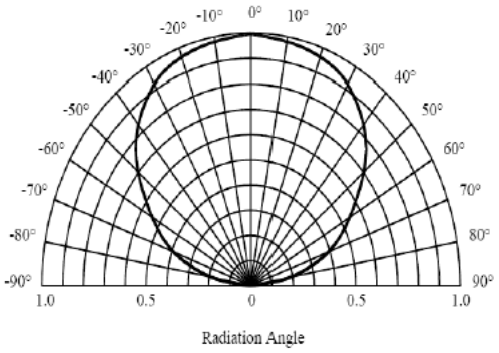










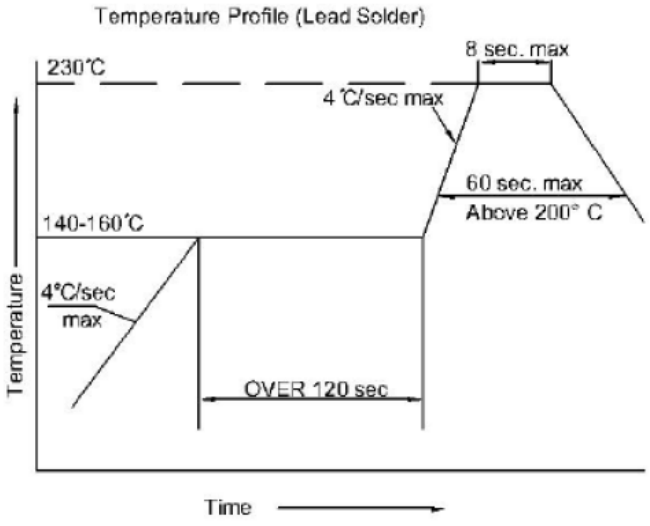


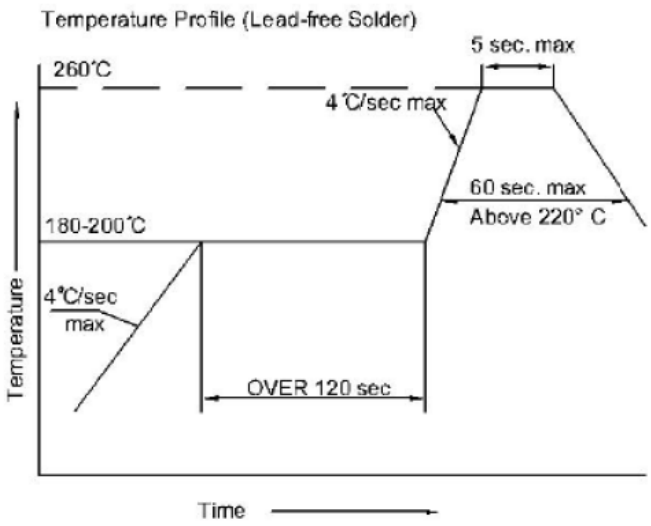
✧ Reliability Test Items And Conditions

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q'ty	Ac/Re
1	Reflow	TEMP:260±5℃; Min.5Sec	6 min	22pcs	0/1
2	Temperature Cycle	H:+100℃ 15mins To(5mins) L:-40℃ 15mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100℃ 15mins To(5mins) L:-40℃ 15mins	300 cycles	22pcs	0/1
4	High Temperature Storage	TEMP: 85℃	1000hrs	22pcs	0/1
5	Low Temperature Storage	TEMP:-40℃	1000hrs	22pcs	0/1
6	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
7	High Temperature	TEMP:+260℃	1 min	22pcs	0/1
8	High Humidity	85%R.H.	1000hrs	22pcs	0/1

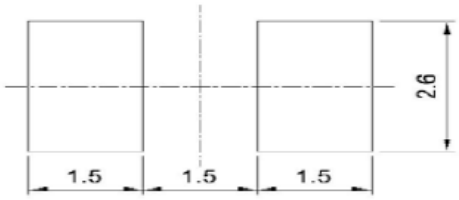
✧ SMT Reflow Soldering Instructions

Number of reflow process shall be than 2 times and cooling
Process to normal temperature is required between first and second
soldering process





✧ Recommended Soldering Pad Dimensions



✧ Tape Specification:2,000PCS per reel