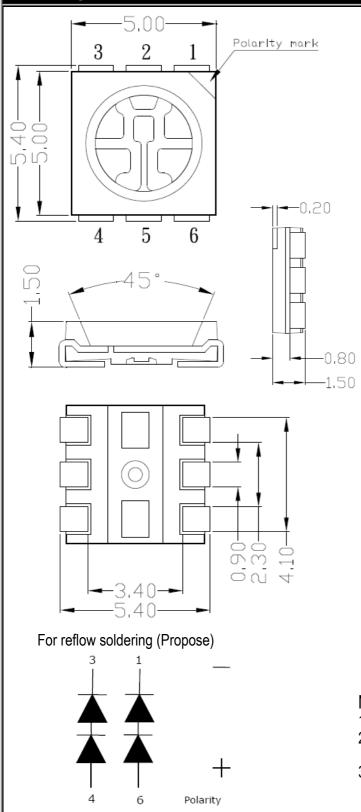
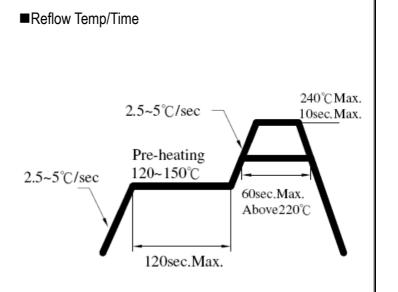
Power White Surface Mount Device

Part Number: 61-24UWC

Package outlines & Re-flow Profile





■Soldering iron

Basic spec is \leq 5sec when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1sec).Power dissipation of iron should be smaller than 15W, and temperatures should be controllable.Surface temperature of the device should be under 230°C.

ITEM	MATERIALS				
Resin (mold)	Ероху				
Lens color	Yellow Diffused				
Printed circuit board	BT				
Emitted color	White				
Material	InGaN				

NOTES:

- 1. All dimensions are in millimeters (inches);
- 2. Tolerances are ±0.1mm (0.004inch) unless otherwise noted.
- 3. Polarity referring onto the cathode mark is reversed on the red.

Part Number: 61-24UWC

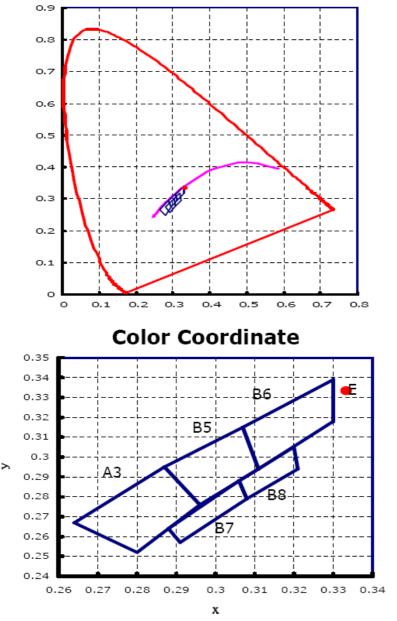
ELECTRO-OPTICAL CHARACTERISTICS

(T_A=25℃)

Parameter	Test	Symbol	Valu	e	Unit
	Condition	Oymbol	MIN. TYP.	MAX.	01111
Viewing angle at 50% I_V	I _F =10mA	2 <i>0</i> 1/2	120		Deg
Forward voltage	l⊧=20mA	VF	5.8	7.0	V
Luminous intensity	I⊧=20mA*2line	lv	3600 4500		mcd
Peak pulsing current (1/10 duty f=1kHz)		I _{FP}	100		mA
Absolute maximum ratings				(T	=25° ℃)
Parameter	Symbol	V	alue		Unit
Forward current	lF		80		mA
Reverse voltage	V _R		5		V
Reverse current	I _R		10		μΑ
Power Consumptoin	Pc		300		mW
Operating temperature range	Тор	-4() ~+85		°C
Storage temperature range	Tstg	-40	~+100		°C

Part Number: 61-24UWC

CIE Chromaticity Diagram



Color Ranks

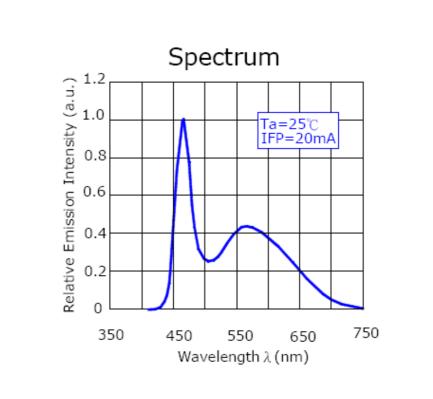
Γ	Rank A3					Rank B5						Rank B7				
þ	κ	0.28) (0.264	0.287	0.296	х	0.296	0.287	0.307	0.311	х	0.291	0.288	0.306	0.308
Ŋ	Y	0.25	2 (0.267	0.295	0.276	У	0.276	0.295	0.315	0.294	у	0.257	0.264	0.288	0.279

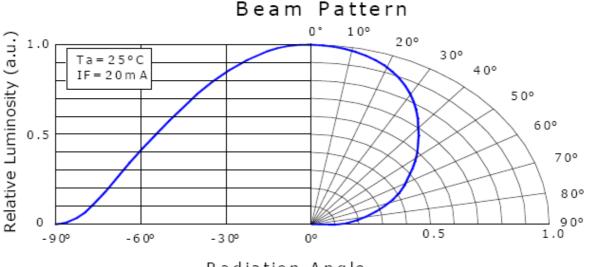
	Rank B6					Rank B8						
х	0.311	0.307	0.330	0.330	х	0.308	0.306	0.32	0.321			
у	0.294	0.315	0.339	0.318	у	0.279	0.288	0.305	0.294			

Color coordinates measurement allowance is ± 0.01

Part Number: 61-24UWC

Typical Electro-Optical Characteristic Curves

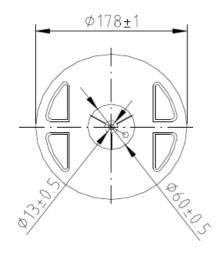


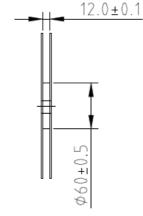


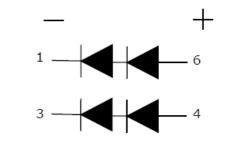
Radiation Angle

Part Number: 61-24UWC

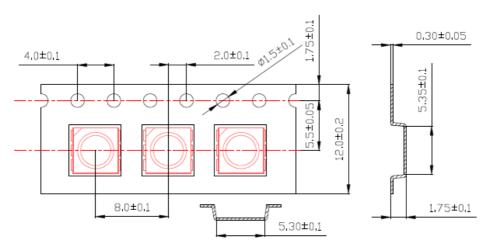
Taping Dimension (Unit=mm)

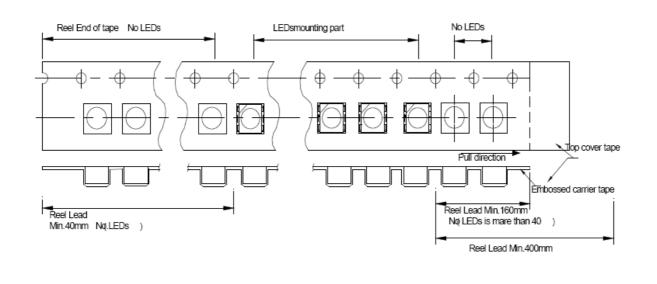






Polarity





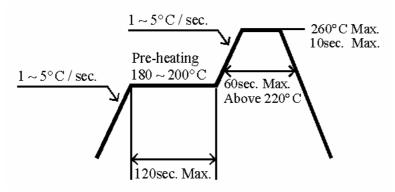
Part Number: 61-24UWC

Precautions For Use

1. Over-current proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

- 2. Storage
 - 2.1 Do not open moisture proof bag before the products are ready to use.
 - 2.2 Before opening the package, the LEDs should be kept at 30° C or less and 90%RH or less.
 - 2.3 The LEDs should be used within a year.
 - 2.4 After opening the package, the LEDs should be kept at 30° C or less and 70° RH or less.
 - 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
 - 2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment : 60±5°C for 24 hours.
- 3. Soldering Condition
 - 3.1 Pb-free solder temperature profile



- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.
- 4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280° C for 3 seconds within once in less than soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.