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SPECIFICATION

PART NO. : LP30N3-S575

80W COB 75 x 75 mm TYPE



Approved by	Checked by	Prepared by
<i>KJ</i>	<i>Lian</i>	<i>Wing</i>



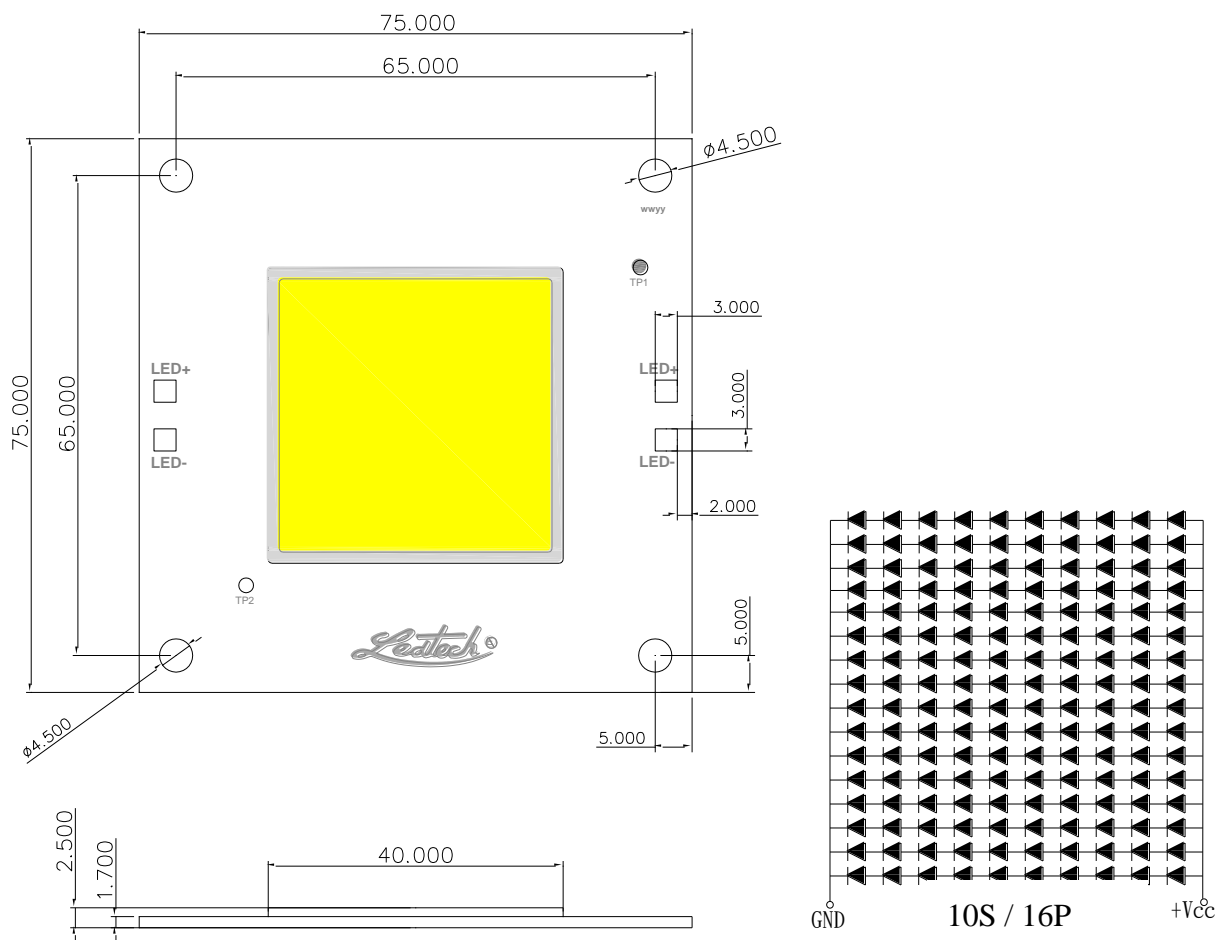
Features

- Pb-Free soldering application
- RoHS compliance
- Multi-Chip package
- High Reliability

Application

- Bay-light module
- Indoor decorative lighting
- Illumination
- Automotive Application
- Architectural Lighting
- Indicator / Decoratio

Package Dimensions



Notes:

1. All dimensions are in mm.
2. Tolerance is ± 0.5 mm unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without notice.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
LP30N3-S575	InGaN/ Sapphire	Cool White	Yellow Diffused

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	81.6	W
D.C. Forward Current	I _f	2.4	A
LED Junction Temperature	T _j	150	°C
Operating Temperature Range	Topr.	-40 to +110	°C
Storage Temperature Range	Tstg.	-40 to +120	°C
Solder Heat Resistance	SHR	Hand Soldering:260±5°C for 5 sec.	
Electric Static Discharge Threshold (HBM)	ESD	1000	V

Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Values			Units	
			Min.	Typ.	Max.		
Luminous Flux	Φ _v	IF=2.4A		8430		lm	
			Rank L1	6800	--		7800
			Rank L2	7800	--		8900
			Rank L3	8900	--		10000
			Rank L4	10000	--		11400
Forward voltage	VF	IF=2.4A		30.6		V	
			Rank V1	28	--		31
			Rank V2	31	--		34
Correlated Color Temperature	CCT	IF=2.4A	6000	--	7000	K	
CIE Chromaticity Coordinates: X Axis	X	IF=2.4A	--	0.3123	--		
CIE Chromaticity Coordinates: Y Axis	Y	IF=2.4A	--	0.3282	--		
Color Rendering Index	CRI	IF=2.4A	80	--	--	Ra	
Viewing angle at 50% IV		2θ1/2	--	120	--	Deg.	

Notes:

1. The data tested by IS tester.
2. Customer's special requirements are also welcome.

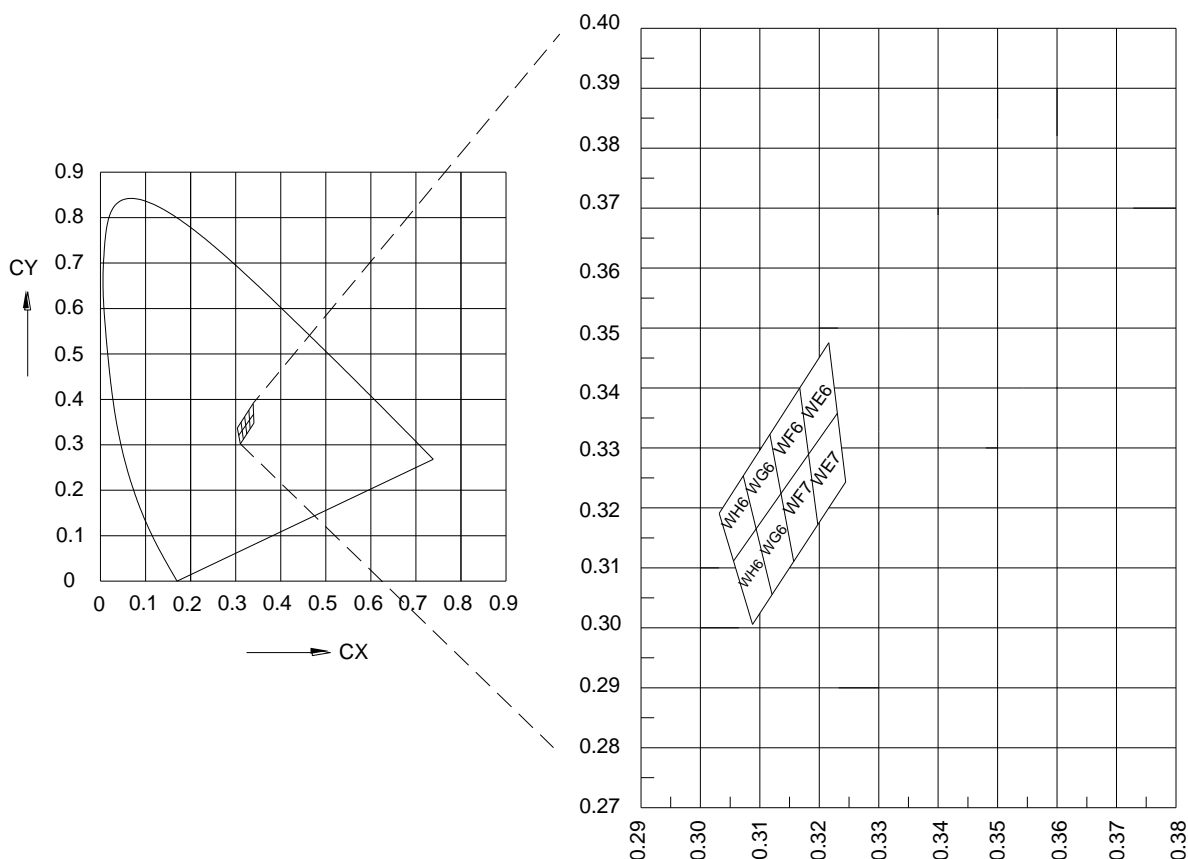
Chromaticity Coordinates Specifications for Bin Grading:

COLOR RANKS (IF=2.4A.Ta=25°C)

BIN	RANK					BIN	RANK				
WE6	X	0.3164	0.3210	0.3218	0.3175	WE7	X	0.3175	0.3218	0.3227	0.3186
	Y	0.3395	0.3468	0.3353	0.3283		Y	0.3283	0.3353	0.3233	0.3169
WF6	X	0.3122	0.3164	0.3175	0.3136	WF7	X	0.3136	0.3175	0.3186	0.3151
	Y	0.3331	0.3395	0.3283	0.3223		Y	0.3223	0.3283	0.3169	0.3114
WG6	X	0.3085	0.3122	0.3136	0.310	WG7	X	0.3103	0.3136	0.3151	0.3120
	Y	0.3273	0.3331	0.3223	0.3170		Y	0.3170	0.3223	0.3114	0.3064
WH6	X	0.3052	0.3085	0.3103	0.3070	WH7	X	0.3070	0.3103	0.3120	0.3091
	Y	0.3222	0.3273	0.3170	0.3118		Y	0.3118	0.3170	0.3064	0.3019

Note: X.Y Tolerance each Bin limit is±0.01.

Chromaticity Coordinates & Bin grading diagram:



Typical Electrical/Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

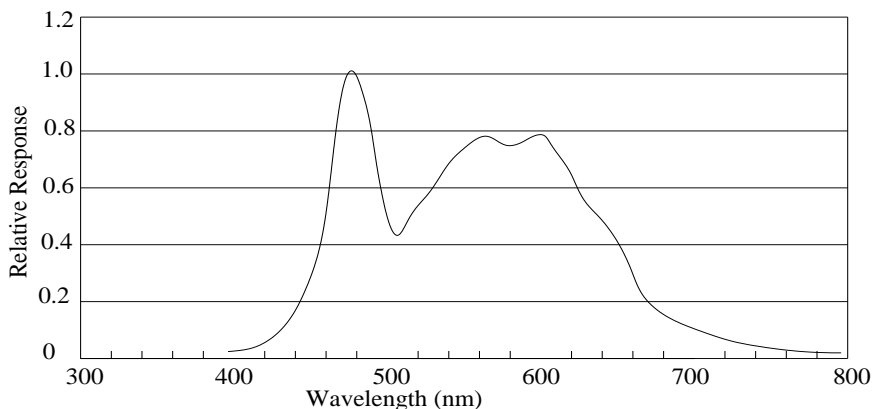
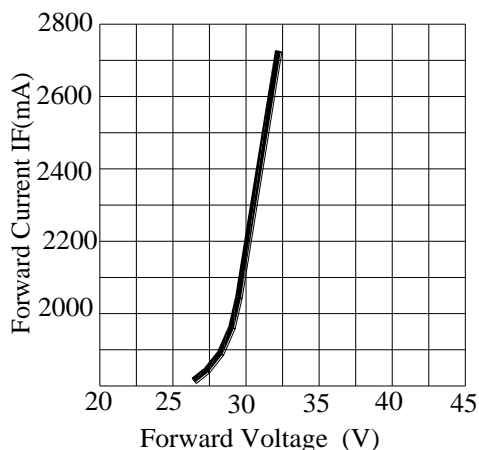
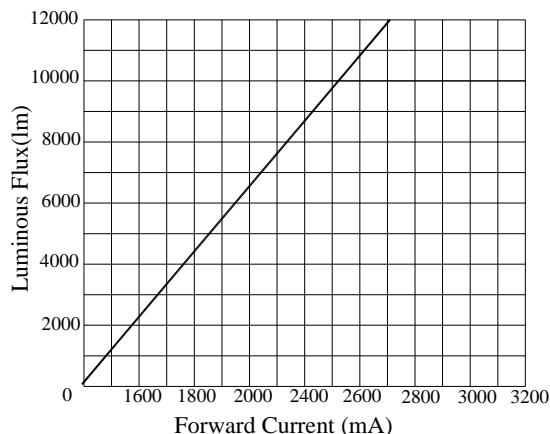


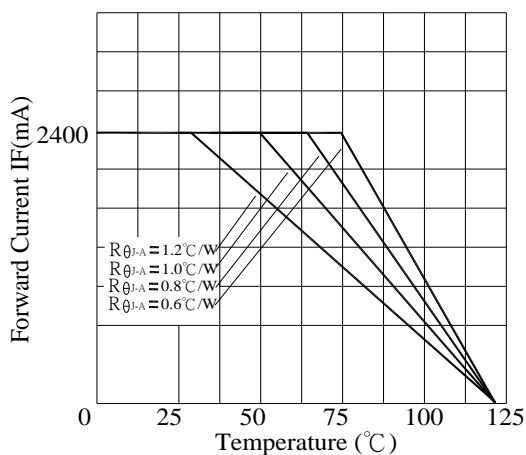
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



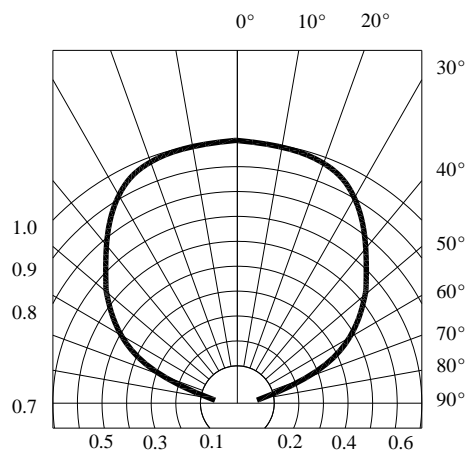
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Radiation Diagram

Handling of Silicone Resin LEDs

Handling Indications

During processing, mechanical stress on the surface should be minimized as much as possible. Sharp objects of all types should not be used to pierce the sealing compound

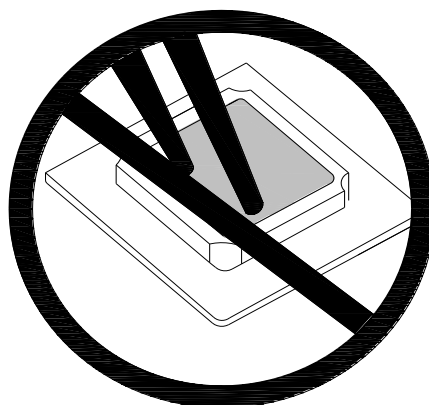


Figure 1

In general, LEDs should only be handled from the side. By the way, this also applies to LEDs without a silicone sealant, since the surface can also become scratched.

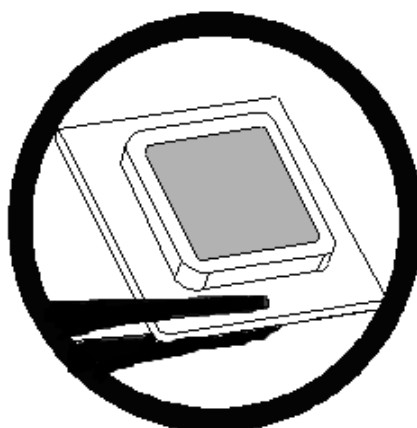
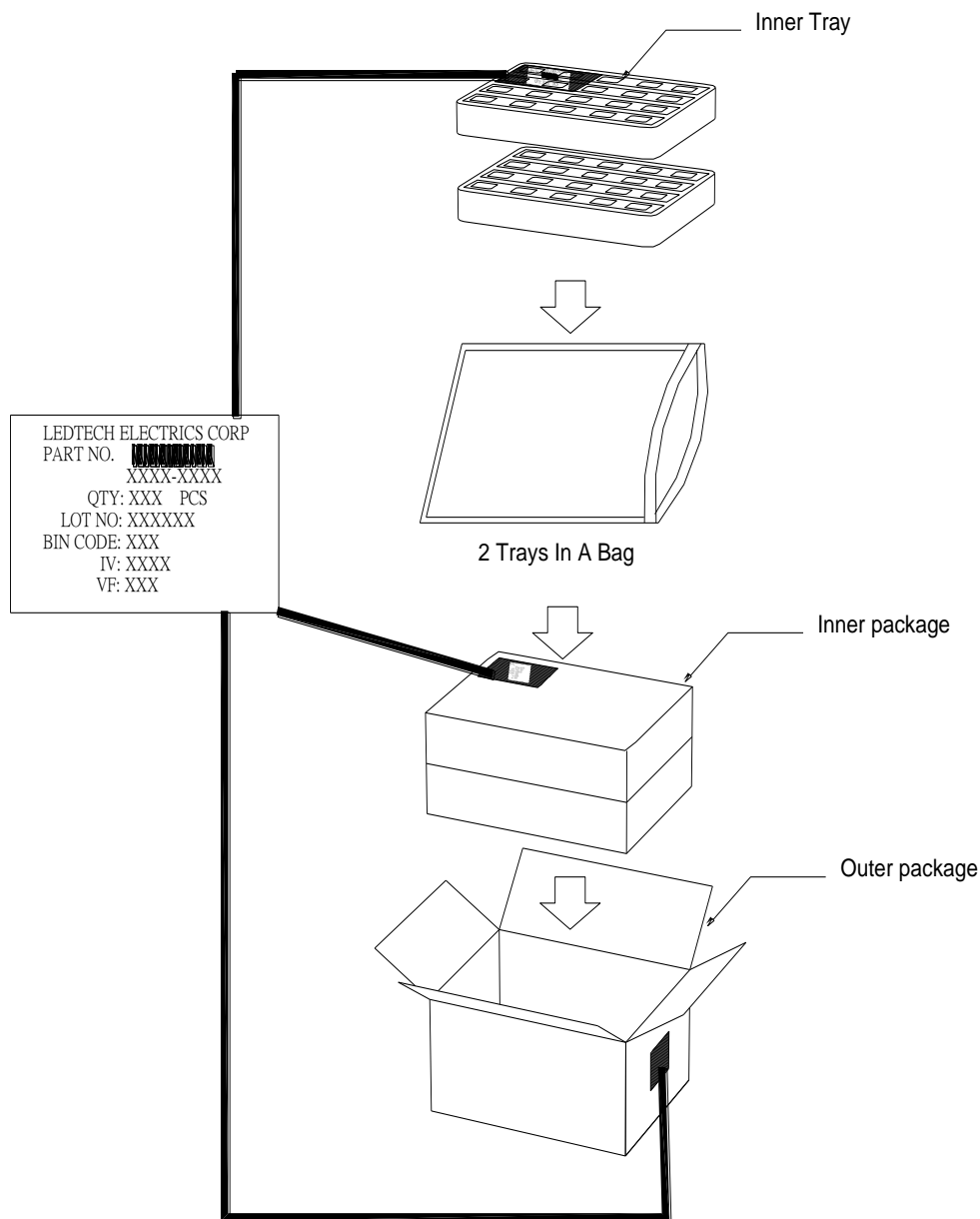


Figure 2

When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the surface of the resin must be prevented.

This is assured by choosing a pick and place nozzle which is larger than the LED's reflector area.

Packaging :**Notes :**

1. All dimensions are in mm.
2. There are 6pcs in a tray.
3. There are 2 trays in an inner box.
4. There are 3 inner boxes in an outer box.