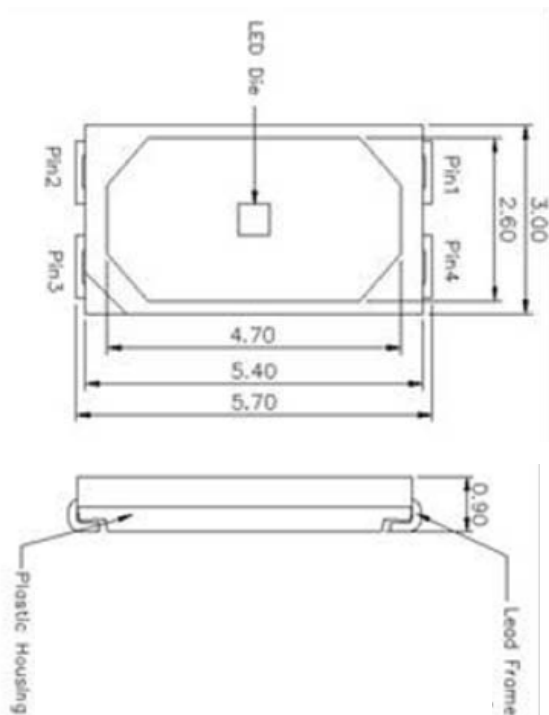
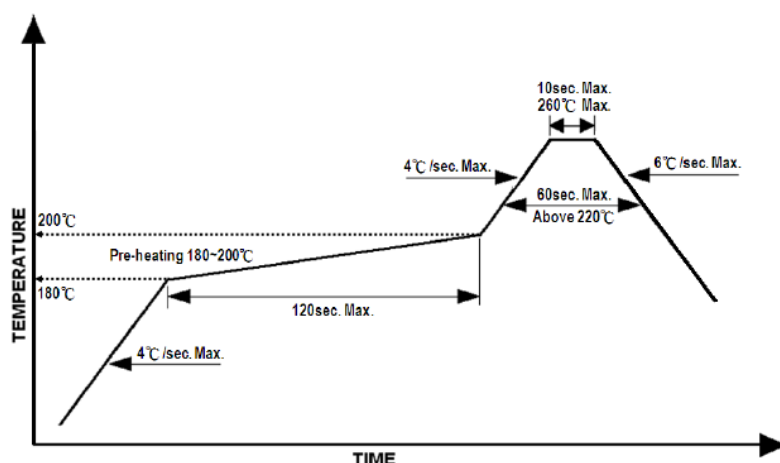
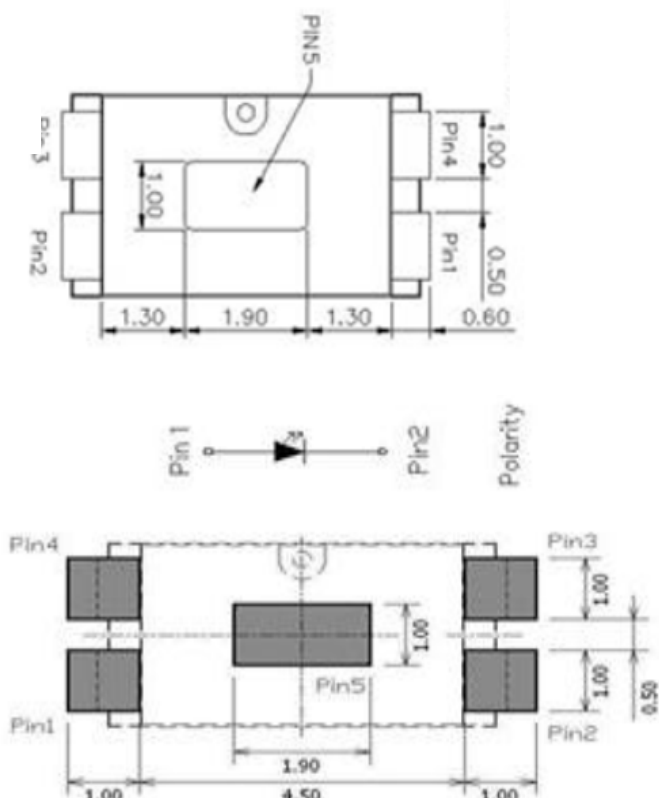


SURFACE MOUNT LED LAMPS**5630 Package Power Warm White Surface Mount Device****Part Number: 62-217BSW1C2****Package outlines & Re-flow Profile****Reflow Temp/Time****Soldering iron**

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec}$). 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)	Epoxy
Lens color	Yellow Diffused
Printed circuit board	BT
Emitted color	Warm White
Material	InGaN

**NOTES:**

- All dimensions are in millimeters (inches);
- Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.
- Polarity referring onto the cathode mark is reversed on the red.



A-BRIGHT INDUSTRIAL CO., LTD.

SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C2

ELECTRO-OPTICAL CHARACTERISTICS

(T_A=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			MIN.	TYP.	MAX.	
Viewing angle at 50% I _v	I _F =150mA	2 θ 1/2	120			Deg
Forward voltage	I _F =150mA	V _F	2.8	---	3.5	V
Color Temperature	I _F =150mA	CCT	2750	3000	3250	K
Luminous Flux	I _F =150mA	Flux	---	52	---	lm
Pulse Forward Current (Pulse Width ≤ 10msec, and duty ≤ 1/10)		I _{FP}	300			mA

Absolute maximum ratings

(T_A=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _F	150	mA
Reverse voltage	V _R	5	V
Reverse current	I _R	1	μA
Power dissipation	P _D	585	mW
Operating temperature range	Top	-30 ~+80	°C
Storage temperature range	Tstg	-40 ~+85	°C



A-BRIGHT INDUSTRIAL CO., LTD.

SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C2

Bin Code

■ Iv Bin:

Color	Bin Code	Spec. Range
White	MC2	15.8~18.1lm
	MD2	16.9 ~18.1lm
	NA1	18.1~19.3lm
	NB1	19.3~20.6lm
	NC2	20.6~22.0lm
	ND2	22.0~23.5lm
	AP1	23.4~25.1lm
	BP1	25.1~26.8m
	CP2	26.8~28.6m
	DP2	28.6~30.4m
	QA1	30.4~32.6m
	QB1	32.6~34.9m
	QC2	34.9~37.2m
	QD2	37.2~39.8m
	RA1	39.8~42.5m
	RB1	42.5~45.3m
	RC2	45.3~48.4m
	RD2	48.4~51.7m
	SA3	51.7~55.2m
	SB3	55.2~58.9m
	SC4	58.9~62.4m
	SD4	62.4~67.2m

Luminous Intensity Measurement Allowance is $\pm 7\%$

■ Vf Bin

Bin Code	Spec. Range
H1	2.8-2.9V
H2	2.9-3.0V
H3	3.0-3.1V
H4	3.1-3.2V
J1	3.2-3.3V
J2	3.3-3.4V
J3	3.4-3.5V

Forward Voltage Measurement Allowance is $\pm 0.05V$

Color Temperature		Iv Bin		
Min.	Max.	Min.	Typ.	Max.
2750K	3750K	RD2	SA3	SB3
3750K	6750K	RB1	RC2	RD2
6750K	9500K	RD2	SA3	SB3

**A-BRIGHT INDUSTRIAL CO., LTD.**

SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C2**Color Rank**

80A	8000~8200K	81A	8000~8200K	80B	7500~8000K	81B	7500~8000K	80C	8000~8200K	81C	8000~8200K	80D	7500~8000K	81D	7500~8000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.296	0.262	0.2915	0.299	0.302	0.287	0.29524	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.292025	0.315585
0.2948	0.29	0.28725	0.30863	0.29575	0.292025	0.29524	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.292025	0.315585
0.295125	0.29575	0.292025	0.315585	0.3035	0.3015	0.298	0.3225	0.29625	0.3040	0.288	0.32003	0.301	0.311	0.295	0.334
0.302	0.287	0.29524	0.3045	0.308	0.292	0.301	0.311	0.295125	0.29475	0.293075	0.315585	0.3035	0.3015	0.298	0.3225
0.296	0.262	0.2915	0.299	0.302	0.287	0.29524	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.292025	0.315585
80A	7000~7500K	81A	7000~7500K	80B	6750~7000K	81B	6750~7000K	80C	7000~7500K	81C	7000~7500K	80D	6750~7000K	81D	6750~7000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.306	0.292	0.301	0.311	0.30975	0.2965	0.3055	0.3165	0.3035	0.3015	0.296	0.3225	0.307625	0.3065	0.303	0.3235
0.3035	0.3015	0.296	0.3225	0.307625	0.3065	0.303	0.3235	0.301	0.311	0.296	0.3225	0.307625	0.3065	0.303	0.3235
0.307625	0.3065	0.303	0.3235	0.31175	0.3115	0.309	0.3245	0.3055	0.3165	0.3005	0.3405	0.31	0.322	0.308	0.347
0.30975	0.2965	0.3055	0.3165	0.3135	0.301	0.31	0.322	0.307625	0.3065	0.303	0.3235	0.31175	0.3115	0.308	0.347
0.306	0.292	0.301	0.311	0.30975	0.2965	0.3055	0.3165	0.3035	0.3015	0.296	0.3225	0.307625	0.3065	0.303	0.3235
80A	8500~8750K	81A	8500~8750K	80B	8250~8500K	81B	8250~8500K	80C	8500~8750K	81C	8500~8750K	80D	8250~8500K	81D	8250~8500K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.3135	0.301	0.31	0.322	0.3167	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775	0.31	0.322	0.306	0.347	0.3135	0.3255	0.31	0.35
0.3151	0.31475	0.31175	0.33775	0.3165	0.318	0.3155	0.341	0.3135	0.3255	0.31	0.35	0.317	0.329	0.314	0.353
0.3107	0.304	0.3135	0.3255	0.32	0.307	0.317	0.329	0.3101	0.31475	0.31175	0.33775	0.3151	0.31475	0.31175	0.33775
0.3135	0.301	0.31	0.322	0.3167	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
80A	8000K~8250K	81A	8000K~8250K	80B	8750~8000K	81B	8750~8000K	80C	8000K~8250K	81C	8000K~8250K	80D	8750~8000K	81D	8750~8000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.316	0.3155	0.341	0.3225	0.3215	0.3205	0.34525
0.3180	0.318	0.3125	0.341	0.3225	0.3215	0.3205	0.34525	0.317	0.329	0.314	0.353	0.3215	0.3205	0.3180	0.3475
0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3245	0.3495	0.3215	0.329	0.316	0.34525	0.3265	0.325	0.3225	0.3495
0.3235	0.31	0.3215	0.333	0.327	0.313	0.325	0.337	0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3225	0.3495
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.316	0.3155	0.341	0.3225	0.3215	0.3205	0.34525
80A	8500~8750K	81A	8500~8750K	80B	8250~8500K	81B	8250~8500K	80C	8500~8750K	81C	8500~8750K	80D	8250~8500K	81D	8250~8500K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.327	0.313	0.326	0.337	0.332	0.317	0.3315	0.342	0.3265	0.325	0.3255	0.3495	0.33225	0.3315	0.33275	0.35475
0.3265	0.325	0.3245	0.3495	0.33225	0.3315	0.33275	0.35475	0.326	0.325	0.3255	0.3495	0.33225	0.3315	0.33275	0.35475
0.33225	0.3315	0.33275	0.35475	0.338	0.334	0.34	0.36	0.3325	0.3315	0.33275	0.35475	0.338	0.334	0.34	0.36
0.332	0.317	0.3315	0.342	0.337	0.321	0.339	0.347	0.33225	0.3315	0.33275	0.35475	0.338	0.334	0.34	0.36
0.327	0.313	0.326	0.337	0.332	0.317	0.3315	0.342	0.3265	0.325	0.3255	0.3495	0.33225	0.3315	0.33275	0.35475
80A	5000K~5250K	81A	5000K~5250K	80B	4750~5000K	81B	4750~5000K	80C	5000K~5250K	81C	5000K~5250K	80D	4750~5000K	81D	4750~5000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.337	0.321	0.333	0.347	0.343	0.3255	0.345	0.351	0.338	0.334	0.34	0.35	0.3445	0.33825	0.3475	0.354
0.338	0.334	0.34	0.36	0.3445	0.33825	0.3475	0.354	0.339	0.347	0.341	0.373	0.348	0.351	0.349	0.377
0.3445	0.33825	0.3475	0.354	0.351	0.345	0.355	0.368	0.340	0.351	0.345	0.377	0.353	0.352	0.357	0.381
0.343	0.3255	0.345	0.351	0.349	0.35	0.353	0.358	0.3445	0.33825	0.3475	0.354	0.348	0.351	0.349	0.377
0.337	0.321	0.333	0.347	0.343	0.3255	0.345	0.351	0.338	0.334	0.34	0.35	0.3445	0.33825	0.3475	0.354
80A	4500~4750K	81A	4500~4750K	80B	4250~4500K	81B	4250~4500K	80C	4500~4750K	81C	4500~4750K	80D	4250~4500K	81D	4250~4500K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.345	0.33	0.353	0.355	0.355	0.3335	0.355	0.36	0.359	0.351	0.3425	0.355	0.358	0.35775	0.34025	0.37225
0.351	0.3475	0.355	0.36	0.35775	0.34025	0.37225	0.3875	0.353	0.355	0.347	0.361	0.359	0.358	0.355	0.3855
0.35775	0.34025	0.37225	0.3875	0.3645	0.35	0.357	0.3765	0.358	0.355	0.355	0.3855	0.35775	0.34025	0.37225	0.3875
0.3555	0.3335	0.355	0.36	0.3555	0.3335	0.355	0.36	0.35775	0.34025	0.37225	0.3875	0.35775	0.34025	0.37225	0.3875
0.345	0.33	0.353	0.355	0.355	0.3335	0.355	0.36	0.359	0.351	0.3425	0.355	0.358	0.35775	0.34025	0.37225
80A	4000~4250K	81A	4000~4250K	80B	3750~4000K	81B	3750~4000K	80C	4000~4250K	81C	4000~4250K	80D	3750~4000K	81D	3750~4000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.3645	0.35	0.3685	0.37	0.37425	0.355	0.37925	0.375	0.3685	0.36	0.37175	0.365	0.37675	0.365	0.383275	0.39
0.36925	0.36	0.37175	0.365	0.37675	0.365	0.383275	0.39	0.3685	0.36	0.37175	0.365	0.37675	0.365	0.383275	0.39
0.37425	0.355	0.37925	0.37	0.383275	0.39	0.3875	0.395	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.425
0.37425	0.355	0.37925	0.37	0.383275	0.39	0.3875	0.395	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.425
0.3645	0.35	0.3685	0.37	0.37425	0.355	0.37925	0.375	0.3685	0.36	0.37175	0.365	0.37675	0.365	0.383275	0.39
80A	3500~3750K	81A	3500~3750K	80B	3250~3500K	81B	3250~3500K	80C	3500~3750K	81C	3500~3750K	80D	3250~3500K	81D	3250~3500K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.384	0.35	0.39	0.38	0.395	0.364	0.403	0.385	0.387	0.37	0.395	0.395	0.395	0.3745	0.408	0.4
0.387	0.37	0.395	0.385	0.395	0.3745	0.403	0.385	0.387	0.37	0.395	0.395	0.395	0.3745	0.408	0.4
0.395	0.3745	0.403	0.385	0.411	0.379	0.4225	0.4047	0.403	0.385	0.415	0.415	0.415	0.39	0.43	0.42
0.395	0.3745	0.403	0.385	0.411	0.379	0.4225	0.4047	0.403	0.385	0.415	0.415	0.415	0.39	0.43	0.42
0.384	0.35	0.39	0.38	0.395	0.364	0.403	0.385	0.387	0.37	0.395	0.395	0.395	0.3745	0.408	0.4
80A	3000~3250K	81A	2750~3000K	80B	3000~3250K	81B	2750~3000K	80C	3000~3250K	81C	2750~3000K	80D	3000~3250K	81D	2750~3000K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.4300	0.388	0.4200	0.3705	0.4125	0.3825	0.42125	0.38475	0.419	0.397	0.4315	0.399	0.4215	0.4150	0.44375	0.417
0.4125	0.3825	0.42125	0.38475	0.419	0.397	0.4315	0.399	0.4215	0.4150	0.44375	0.417	0.4215	0.4150	0.44375	0.417
0.42125	0.38475	0.4200	0.3705	0.4125	0.3825	0.42125	0.38475	0.419	0.397	0.4315	0.399	0.4215	0.4150	0.44375	0.417
0.4200	0.3705	0.4200	0.3705	0.4125	0.3825	0.42125	0.38475	0.419	0.397	0.4315	0.399	0.4215	0.4150	0.44375	0.417
0.4300	0.388	0.4200	0.3705	0.4125	0.3825	0.42125	0.38475	0.419	0.397	0.4315	0.399	0.4215	0.4150	0.44375	0.417
80A	2500~2750K	81A	2250~2500K	80B	2500~2750K	81B	2250~2500K	80C	2500~2750K	81C	2250~2500K	80D	2500~2750K	81D	2250~2500K
x	y	x	y	x	y	x	y	x	y	x	y	x	y	x	y
0.434	0.373	0.448	0.3755	0.442	0.367	0.45875	0.38925	0.45	0.401	0.4555	0.4020	0.4555	0.4020	0.45875	0.421
0.4420	0.3870	0.45075	0.38925	0.4500	0.4010	0.45875	0.4020	0.4555	0.4020	0.4555	0.4020	0.4555	0.4020	0.45875	0.421
0.45875	0.38925	0.4500	0.4010	0.45875	0.4020	0.45875	0.4020								

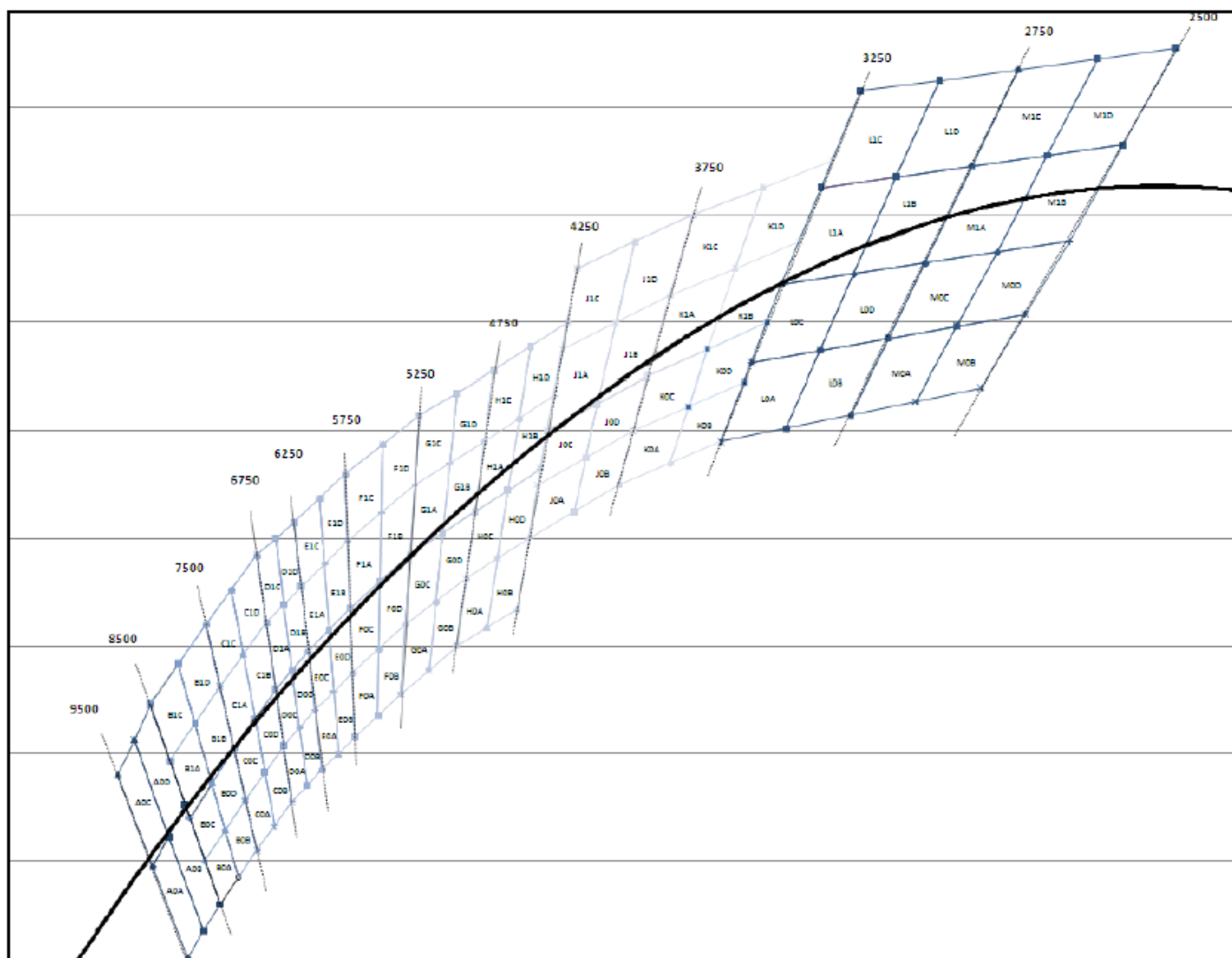


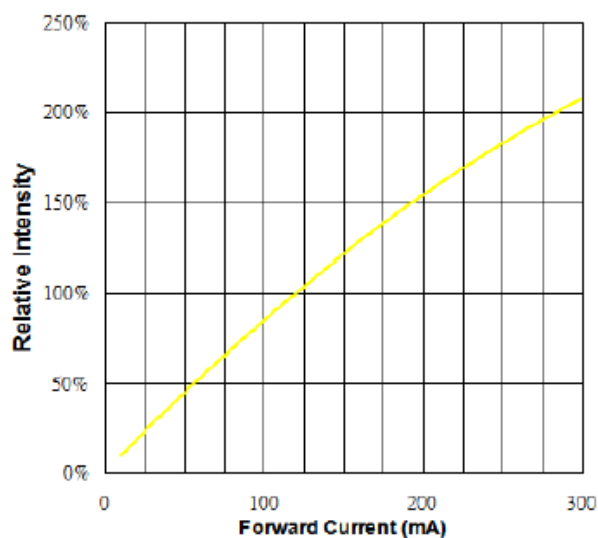
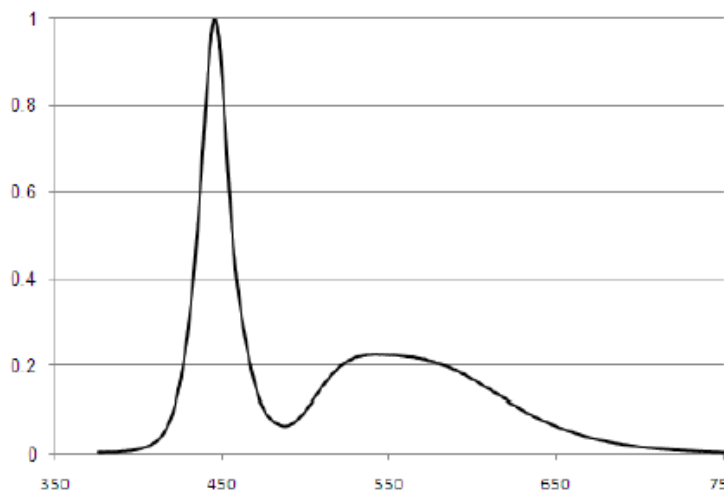
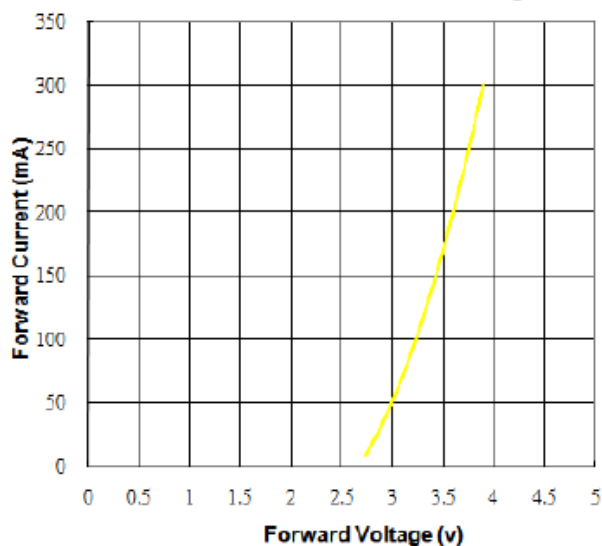
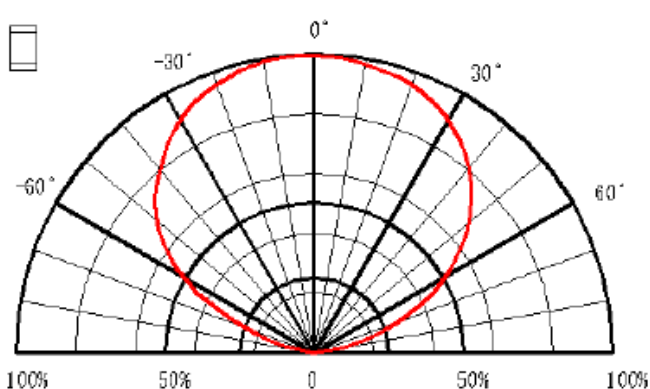
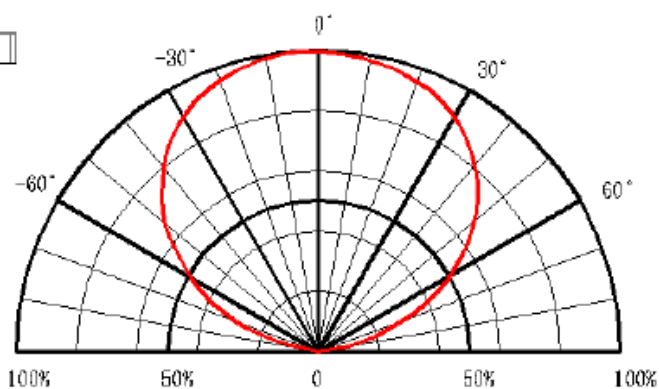
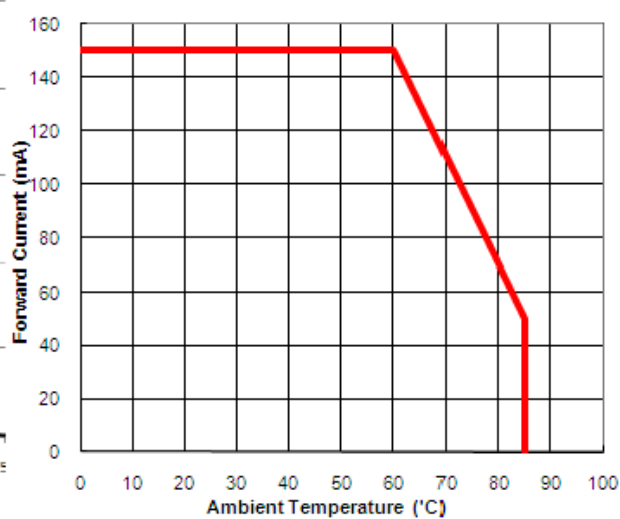
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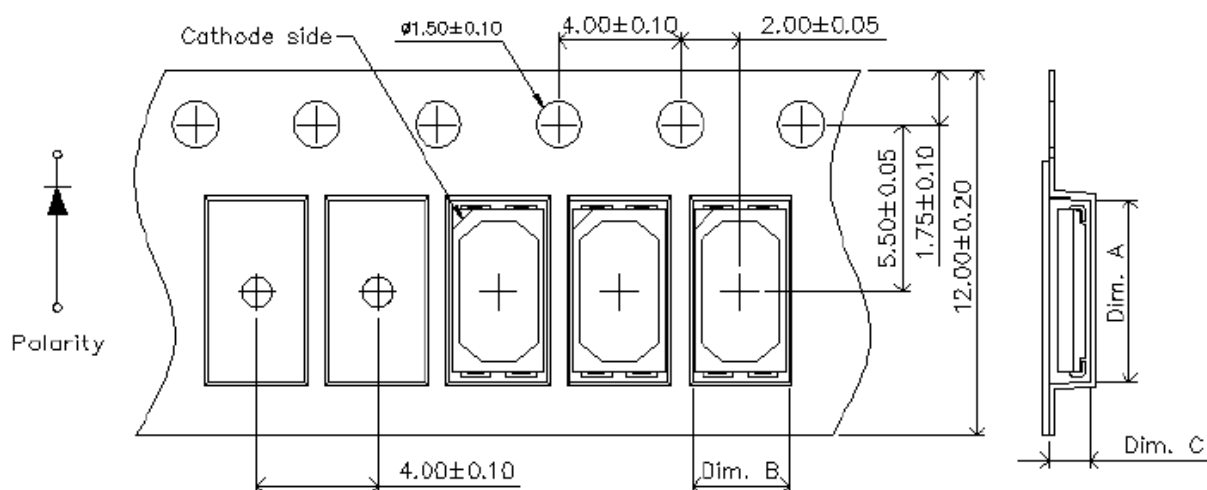
SURFACE MOUNT LED LAMPS

Part Number: 62-217BSW1C2

CIE Chromaticity Diagram

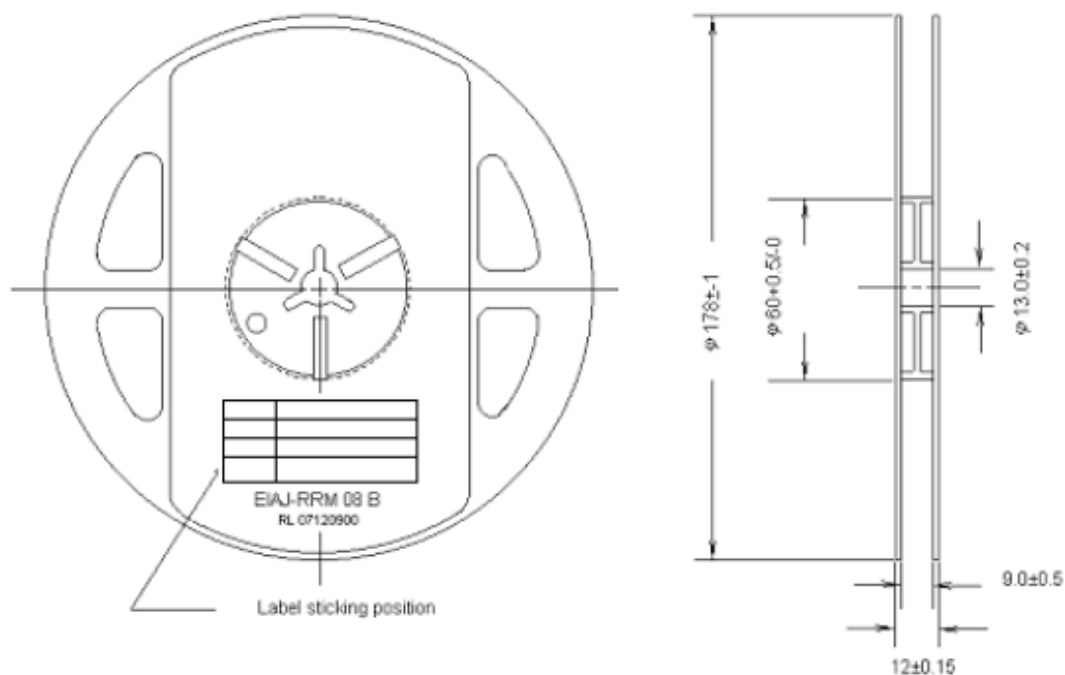


SURFACE MOUNT LED LAMPS**Part Number: 62-217BSW1C2****Typical Electro-Optical Characteristic Curves****Relative Intensity vs. Forward Current****Forward Current vs. Forward Voltage****Forward Current vs. Ambient Temperature**

SURFACE MOUNT LED LAMPS**Part Number: 62-217BSW1C2****Packaging Tape, Reel, and Packing Model****Tape Dimension**

Part No.	Dim. A	Dim. B	Dim. C	Q'ty/Reel
HT-T5301	6.0 ± 0.1	3.2 ± 0.1	1.1 ± 0.1	2K

Unit: mm

Reel Dimension

SURFACE MOUNT LED LAMPS**Part Number: 62-217BSW1C2****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.

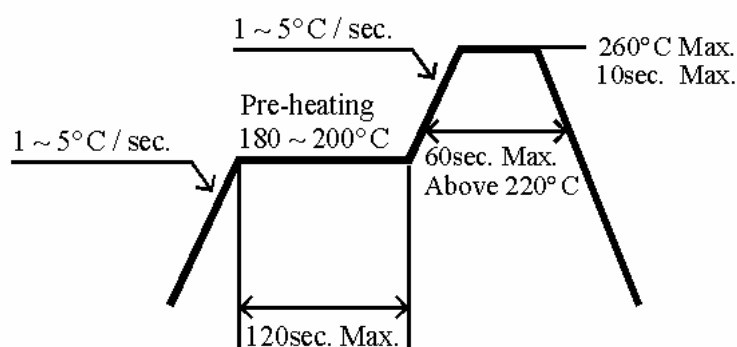
2.3 The LEDs should be used within a year.

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.